REGIONAL COLLEGE

Regional College
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384 Library
Kent Campus
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Academic Advising Offices

Kent State University at Ashtabula
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Kent State University at East Liverpool
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East Liverpool Campus
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14111 Claridon-Troy Road
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2491 State Route 45 South
Salem Campus
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www.kent.edu/columbiana/advisors-salem

Kent State University at Stark
132 Main Hall
Stark Campus
330-244-3251
www.kent.edu/stark/advising-services

Kent State University at Trumbull
Workforce Development Bldg.
Trumbull Campus
330-675-8860
trumbulladvisor@kent.edu
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Kent State University at Tuscarawas
Founders Hall
Tuscarawas Campus
330-339-3391
www.kent.edu/tusc/academic-advising

Mission
The Regional Campuses of Kent State University have a long standing history of providing northeast Ohioans with access to Kent State University without leaving their community. Each campus is engaged within its region and has made significant contributions to the civic, cultural, and economic well being of Northeast Ohio’s communities. The Campuses have distinguished themselves with applied programs that respond to local needs, an emphasis on workforce preparation and a commitment to providing higher education that is broadly accessible.

The Campuses carry out this mission through the efforts of a faculty committed to the highest standards in the scholarships of discovery, integration, application, teaching and university citizenship. Faculty members actively pursue a variety of creative endeavors, regularly contribute to the scholarship in their disciplines, take pride in their continuing pedagogical successes, and are recognized by the wider University community with teaching and professional development awards. Regional campus faculty are visible citizens in the communities they serve, as well as at every level of university governance.

Departments and Schools

• Regional College

Undergraduate Programs

• Accounting Technology - A.A.B.
• Agribusiness - B.S.
• Associate of Arts
• Associate of Science
• Business Management Technology - A.A.B.
• Computer Design, Animation and Game Design - A.A.S.
• Computer Technology - A.A.B.
• Early Childhood Education Technology - A.A.S.
• Electrical/Electronic Engineering Technology - A.A.S.
• Engineering of Information Technology - A.A.S.
• Engineering Technology - B.S.
• Enology - A.A.S.
• Environment Management - A.T.S.
• Environmental Health and Safety - A.A.S.
• Horticulture - B.A.H.
• Horticulture Technology - A.A.S.
• Human Services - A.A.S.
• Individualized Program - A.T.S
• Insurance Studies - B.S.
• Justice Studies - A.A.
• Legal Assisting Technology - A.A.S.
• Manufacturing Engineering Technology - A.A.S.
• Mechanical Engineering Technology - A.A.S.
• Nursing (A.D.N.) - A.A.S.
• Occupational Therapy Assistant Technology - A.A.S.
• Office Technology - A.A.B.
• Physical Therapist Assistant Technology - A.A.S.
• Radiologic Imaging Sciences - B.R.I.T.
• Radiologic Technology - A.A.S.
• Radiologic Technology - A.T.S.
• Respiratory Care - B.S.
• Respiratory Therapy Technology - A.A.S.
• Technical and Applied Studies - B.T.A.S.
• Veterinary Technology - A.A.S.
• Viticulture - A.A.S.
Minors
• Computer Design, Animation and Game Design
• Computer Forensics and Security
• Help Desk Support
• Software Development

Certificates
Undergraduate Certificates
• Business Management Technology
• CAD for Manufacturing
• Computer Forensics and Information Security
• Computer-Aided Drafting: Design Technician
• eBusiness
• Entrepreneurship
• Floriculture
• Greenhouse Production
• Hospitality Management
• Medical Billing
• Office Software Applications

Regional College Faculty
• Bailey, Mistey D. (2016), Lecturer, M.S.N., Kent State University, 2016
• Baker, John J. (2012), Lecturer, M.S., La Roche College, 1990
• Banks, Kathleen C. (1990), Assistant Professor, M.S.N., West Virginia University, 1985
• Barcus, Laurie D. (2005), Assistant Professor, M.S.N., University of Phoenix, 2006
• Bears, Lorraine E. (1999), Associate Lecturer, M.Tech., Kent State University, 2004
• Beck, Stacy J. (2008), Associate Lecturer, M.P.H., Kent State University, 2004
• Berlin, Kingsly T. (2013), Lecturer, B.S., The Ohio State University, 2005
• Bhutta, Adeel A. (2012), Lecturer, M.S., University of Central Florida, 2012
• Blake, Robert M. (2003), Assistant Professor, M.S., Duke University, 1994
• Bonaduce, Samantha J. (2013), Lecturer, M.S.N., Kent State University, 2015
• Brindley, Lisa K. (1999), Associate Lecturer, M.Ed., Kent State University, 1983
• Burkholder, Maria R. (2006), Associate Lecturer, B.S., The Ohio State University, 2001
• Burnworth, Christina M. (1995), Lecturer, M.Tech., Kent State University, 2006
• Caldwell, Joy E. (2013), Lecturer
• Carvalho, Carolyn J. (2004), Associate Lecturer, M. Tech, Kent State University, 2007
• Casey, Donna J. (2009), Lecturer, M.S.N., Walden University, 2009
• Chen, Jie (2001), Profesor, Ph.D., University of Wisconsin-Madison, 1993
• Courey, Tamra J. (1998), Associate Professor, D.N.P., Kent State University, 2014
• Czyzka, Michael A. (1994), Senior Lecturer, M.Tech., Kent State University, 2002
• Daugherty, William S. (2005), Associate Lecturer, M.B.A., University of Hawaii-Manoa, 1974
• Douglass, Angela T. (2003), Senior Lecturer, M.S.N., Youngstown State University, 2003
• Dragomir, Kelly A. (2012), Lecturer, B.A., Kent State University, 2010
• Drugovich, Collette M. (2014), Lecturer, M.S.N., Grand Canyon University, 2014
• Emens, Susan (1993), Associate Professor, M.A.E., Kent State University, 2003
• Ensminger-Stokes, Dawn E. (2011), Lecturer, M.S.N., University of Akron, 2007
• Freitas, Frances A. (1995), Assistant Professor, Ph.D., Kent State University, 2007
• Ginal, Sharon L. (2006), Lecturer, M.S.N., Ursuline College, 2002
• Golden, Shawn D. (2004), Associate Professor, Ph.D., Kent State University, 2014
• Gunning, Bruce J. (1993), Assistant Professor, M.S., Texas Tech University, 1983
• Gurau, Vladimir (2010), Associate Professor, Ph.D., University of Miami, 1998
• Hager, Deborah L. (2004), Associate Professor, M.S.N., Franciscan University of Steubenville, 2004
• Hancock, Darryl A. (2012), Associate Professor, PhD, Chatham University, 2008
• Harding, Mariann M. (2005), Associate Professor, Ph.D., West Virginia University, 2013
• Hoffman, Susan C. (1983), Assistant Professor, M.B.A., Wheeling College, 1982
• Iagulli, Margie B. (1997), Senior Lecturer, M.Ed., Kent State University, 2002
• Jones, Stanley M. (2006), Associate Lecturer, M.S., Texas A&M University, 2000
• Kananian, Mary W. (2012), Lecturer
• Kelly, Johnston R. (2016), Lecturer, D.V.M., The Ohio State University, 1992
• King, Lisa G. (2008), Associate Lecturer, M.S.N., Kent State University, 2011
• Kiphart, Tiffany M. (2002), Senior Lecturer, B.S., Wilmington College of Ohio, 1993
• Koptur, Turan (2007), Lecturer, M.Tech., Kent State University, 2013
• Kuvshinikov, Joseph T. (1994), Associate Professor, Ph.D., Gannon University, 2012
• Leija, Lynn M. (2005), Associate Lecturer, B.S., Ohio University, 1991
• Logan, Robert L. (1998), Associate Lecturer, M.B.A., Kent State University, 2001
• Main, Amy B. (2013), Assistant Professor, M.S.N., Indiana State University, 2008
• Majernik, John G. (2009), Lecturer, M.Ed., Kent State University, 2012
• Marshall, Shelley K. (1999), Lecturer, M.Tech., Kent State University, 2008
• McEnroe-Petitte, Denise M. (1996), Associate Professor, Ph.D., Capella University, 2014
• Mermer, Robin J. (2014), Lecturer, M.S.N., Kent State University, 2012
• Migge, Victoria L. (2006), Senior Lecturer, M.S., St. Francis University, 2004
• Morris, Lora J. (2003), Associate Professor, M.S.N., Ursuline College, 2002
• Muscatello, Joseph R. (2004), Associate Professor, D.B.A., Cleveland State University, 2002
• Neuman, Jyotsna (1986), Assistant Professor, M.A.F.I.S., Cleveland State University, 1981
• Newman, Edward (1994), Assistant Professor, M.B.A., Ashland University, 1994
• Ossler, Robert L. (2011), Lecturer, M.S.N., University of Phoenix, 2010
• Paternite, Judith S. (1995), Associate Lecturer, Ph.D., Kent State University, 2016
• Patibandla, Srinivas (1998), Assistant Professor, M.Tech., Kent State University, 2004
• Pech, Sandra L. (2000), Assistant Professor, Ph.D., Kent State University, 2010
• Peterson, Cynthia L. (1999), Senior Lecturer, M.P.H., Kent State University, 2008
• Rajagopal, Chitra P. (1993), Associate Professor, M.S., Youngstown State University, 1992
• Remedio, Robert J. (1984), Assistant Professor, M.S., Youngstown State University, 1978
• Rempe, Rebecca D. (2010), Lecturer, B.S., Ohio University, 1997
• Rezaei, Dariush (1989), Associate Professor, M.S., University of Arkansas, 1988
• Rose, Stacy R. (2001), Associate Professor, M.S.N., Case Western Reserve University, 2000
• Schlosser, Elizabeth A. (1995), Associate Professor, B.S., Bowling Green State University, 1989
• Senita, Julie A. (2004), Associate Professor, Ph.D., Kent State University, 2017
• Shumaker, Megan C. (2014), Lecturer
• Smyth, Thomas R. (1996), Associate Professor, M.B.A., Franciscan University of Steubenville, 1997
• Stefka, Shelly L. (2013), Lecturer, M.S.N., Walden University-Baltimore, 2012
• Steidl, Joan M. (2007), Assistant Professor, B.A., University of Akron, 1979
• Stewart, Diane L. (2005), Assistant Professor, M.S.N., La Roche College, 1999
• Swoboda, Kathleen (2008), Associate Lecturer, L.S.M., Kent State University, 2011
• Trebets, Edward (2016), Lecturer, M.Ed., John Carroll University, 1998
• Tu, Tsunghui (2002), Associate Professor, Ph.D., Iowa State University, 2001
• Upole, Daryl G. III (1992), Assistant Professor, M.B.A., Cleveland State University, 1994
• Vanfossen, Jonathan S. (2007), Lecturer, M.Tech., Kent State University, 2009
• Ward, William C. (1988), Associate Professor, M.A., Kent State University, 1997
• Watson, Ruth A. (1989), Associate Professor, Ph.D., Kent State University, 2004
• Whittaker, Debra L. (2016), Lecturer, M.S.N., Cleveland State University, 2013
• Yakovac, Rebecca L. (2012), Lecturer, M.A., The Ohio State University, 1991
• Zaleski, Kimberly K. (2013), Lecturer
• Zampino, Anthony C. (1998), Associate Lecturer, M.Tech., Kent State University, 2003

Center for Comparative and Integrative Programs Faculty
• Kessler, Chaya (2009), Lecturer, M.A., Youngstown State University, 2005
• Parr, Amanda M. (2013), Assistant Professor, B.A., Kent State University, 2002
• Parr, Conroy, Amanda M. (2013), Assistant Professor, B.A., Kent State University, 2002

Center for the Study of Gender and Sexuality Faculty
• Holt, Suzanne L. (1984), Professor, Ph.D., Kent State University, 1987
• Merryman, Molly B. (1996), Associate Professor, Ph.D., Bowling Green State University, 1995
• Yachon, Lauren (2012), Assistant Professor, M.F.A., Kent State University, 2013

Chemical Physics Interdisciplinary Program Faculty
• Bos, Philip J. (1994), Professor, Ph.D., Kent State University, 1978
• Chien, Liang-Chy (1988), Professor, Ph.D., University of Southern Mississippi, 1988
• Hegmann, Torsten (2011), Associate Professor, Ph.D., Martin Luther University, 2001
• Hegmann, Elda (2011), Assistant Professor, Ph.D., Laval University, 2003
• Jakli, Antal I. (1989), Professor, Ph.D., University of Budapest, 1986
• Lavrentovich, Oleg D. (1992), Trustees Research Professor, Kiev University, 1990
• Palffy-Muhoray, Peter (1987), Professor
• Selinger, Jonathan V. (2005), Professor, Ph.D., Harvard College, 1989
• Selinger, Robin L.B. (2005), Professor, Ph.D., Harvard College, 1989
• Wei, Qi-Huo (2006), Associate Professor
• West, John L. (1984), Trustees Research Professor
• Yang, Deng-Ke (1989), Professor, Ph.D., University of Hawaii at Manoa, 1989
• Yokoyama, Hiroshi (2009), Professor, Ph.D., Tokyo International University, 1987

Department of Accounting Faculty
• Alam, Pervaiz (1985), Professor, Ph.D University of Houston, 1984
• Altieri, Mark P. (1992), Professor, L.L.M., New York University, 1982
• Bolchak, James R. (2006), Associate Professor, Ph.D., Youngstown State University, 1996
• Fang, Shunlan (2014), Assistant Professor, Ph.D., Temple University, 2013
• Hinkel, Timothy (2013), Assistant Professor, Ph.D., University of Arizona, 2013
• Hoffman, Benjamin W. (2012), Assistant Professor
• Laksmmana, Indrarini (2004), Associate Professor, Ph.D., Georgia State University, 2004
• Li, Wei (2006), Associate Professor, M.B.A., Washington State University, 2001
• Malbasa, Malinda B. (2009), Assistant Professor, M.Tax., University of Akron, 1995
• Sellers, R. Drew (2011), Assistant Professor, D.M., Case Western Reserve University, 2008
• Tietz, Wendy M. (2000), Professor, Ph.D., Kent State University, 2007
• Zucca, Linda J. (1988), Associate Professor and Chair, Ph.D., Case Western Reserve University, 1989

Department of Anthropology Faculty
• Feinberg, Richard (1974), Professor, Ph.D, University of Chicago, 1974
• Fotiou, Evgenia (2014), Assistant Professor, Ph.D, University of Wisconsin-Madison, 2010
• Lovejoy, Claude Owen (1968), Distinguished Professor, Ph.D., University of Massachusetts-Amherst, 1970
• Manahan, Thomas K. (2006), Associate Professor, Ph.D., Vanderbilt University, 2003
• Meindl, Richard (1979), Professor, Ph.D., University of Massachusetts-Amherst, 1979
• Perusek, David J. (1998), Associate Professor, L.S.M., Kent State University, 1989
• Raghanti, Mary Ann (2000), Associate Professor, Ph.D., Kent State University, 2007
• Spurlock, Linda B. (1993), Assistant Professor, Ph.D., Kent State University, 2001
• Stumpf-Carome, Jeanne M. (1994), Associate Professor, Ph.D., University of California-Berkeley, 1992
• Tosi, Anthony J. (2014), Assistant Professor, Ph.D., Columbia University, 2000

Department of Biological Sciences Faculty
• Bade, Darren L. (2006), Associate Professor, Ph.D., University of Wisconsin, 2004
• Bagavandoss, Paul (1993), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1986
• Bailey, Erin L. (2012), Assistant Professor, Ph.D., Kent State University, 2001
• Blackwood, Christopher B (2006), Associate Professor, Ph.D., Michigan State University, 2001
• Blank, James L. (1986), Professor and College Dean, Ph.D., Indiana University, 1982
• Breidenbaugh, Caralisa (2010), Lecturer, M.S., Youngstown State University, 2008
• Brennen, Michael J. (2004), Associate Lecturer, M.Ed., Edinboro University of Pennsylvania, 1985
• Caldwell, Heather (2007), Associate Professor, Ph.D., Georgia State University, 2004
• Carlson, Chris R. (1991), Associate Professor, M.S., Michigan State University, 1981
• Casadesus Smith, Gemma (2014), Associate Professor, Ph.D., Tufts University, 2003
• Case, Andrea L. (2005), Associate Professor, Ph.D., University of Toronto, 2000
• Chen, Yijing (2014), Assistant Professor, Ph.D., University of Wisconsin-Madison, 1997
• Chung, Wilson (2011), Assistant Professor, Ph.D., University of Amsterdam, 2003
• Clements, Robert J. (1997), Assistant Professor, Ph.D., Kent State University, 2004
• Costello, David M. (2014), Assistant Professor, Ph.D., University of Notre Dame, 2010
• Damron, Derek S. (2007), Professor, Ph.D., Kent State University, 1991
• De Szalay, Ferenc A. (1997), Associate Professor, Ph.D., University of California-Berkeley, 1995
• Delorme, Thierry A. (2004), Associate Professor, Ph.D., University of Lyon, 1997
• Ding, Qunxing (2007), Associate Professor
• Engothing-Ndong, Jean (2010), Assistant Professor
• Finer, Kim R. (1993), Professor, Ph.D, Texas A&M University, 1984
• Fraizer, Gail C. (2001), Associate Professor, Ph.D., University of California-Berkeley, 1983
• Freeman, Ernest J. (1990), Associate Professor and School Director, Ph.D., Kent State University, 1991
• Gerbig, Donald G. (1996), Associate Professor, Ph.D., University of Tennessee-Knoxville, 1991
• Glass, David J. (1984), Professor
• Grafton, Brian W. (1994), Associate Professor, Ph.D, Kent State University, 2004
• Groff, Chi-Hua (2009), Assistant Professor, Ph.D., Wayne State University, 1997
• Gupta, Sanhita (2009), Assistant Professor, Ph.D., Case Western Reserve University, 1998
• Hamilton, Robert IV (2005), Associate Professor, Ph.D., Rutgers, State University of New Jersey, 2006
• Hoeh, Walter R. (1998), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1991
• Huang, Songping D. (1998), Professor, Ph.D., Michigan State University, 1993
• Johnson, John D. (2007), Associate Professor, Ph.D., University of Colorado-Boulder, 2002
• Kershner, Mark W. (1999), Associate Professor, Ph.D., The Ohio State University, 1998
• Kim, Min Ho (2012), Assistant Professor, Ph.D., University of Toledo, 2002
• Kline, Douglas W. (1990), Professor, Ph.D., University of California-Davis, 1985
• Kooijman, Edgar (1998), Associate Professor, Ph.D., Utrecht University, 2006
• Koski, Gary K. (2010), Associate Professor, Ph.D., Johns Hopkins University, 1995
• Leff, Adam A. (1994), Associate Professor, D.V.M., University of Georgia, 1991
• Leff, Laura G. (1994), Professor, Ph.D., University of Georgia, 1992
• Lehner, Matthew S. (2012), Assistant Professor, Ph.D., University of Florida, 2010
• Lovell, John A. (1995), Associate Professor, Ph.D., Kent State University, 1993
• Marcinkiewicz, Jennifer L. (1995), Associate Professor
• McDonough, Jennifer A. (2006), Assistant Professor
• Meek, Leah M. (1995), Associate Lecturer
• Mintz, Eric M. (2002), Professor, Ph.D., University of California-Santa Cruz, 1995
• Model, Michael A. (2002), Assistant Professor, Ph.D., University of Michigan-Ann Arbor, 1995
• Mou, Xiaozhen (2008), Associate Professor, Ph.D., University of Georgia, 2006
• Naji, Josefine W. (1988), Associate Professor, Ph.D., Kent State University, 1994
• Novak Barnett, Colleen M. (2009), Associate Professor, Ph.D., Michigan State University, 1999
• Piontkivska, Olena (2005), Associate Professor, Ph.D., Pennsylvania State University, 2003
• Popescu, Daniela C. (2013), Assistant Professor, Ph.D., Vanderbilt University, 2006
• Proffer, Tyre J. (1991), Professor, Ph.D., Michigan State University, 1985
• Rocha, Oscar J. (2004), Associate Professor, Ph.D., Pennsylvania State University, 1990
• Russell, Mary A. (2003), Associate Professor, Ph.D., The Ohio State University, 1996
• Sikut, Robin M. (2009), Lecturer, M.Ed., University of Akron, 1995
• Smith, Gregory A. (2014), Assistant Professor, Ph.D., University of Oklahoma, 2007
• Soriano, Augusto H. (2001), Assistant Professor, A.A.B., Kent State University, 2007
• Steele, Louise (2012), Assistant Professor, Ph.D., Case Western Reserve University, 2002
• Stone, Jonathan F. (2003), Assistant Professor, B.S., University of Akron, 1985
• Tinkler, Gregory P. (2013), Assistant Professor, Ph.D., Wake Forest University, 2005
• Vash, Sarah R. (2004), Senior Lecturer, M.S., Kent State University, 2003
• Veney, Sean L. (2004), Associate Professor, Ph.D., University of Virginia, 2000
• Vijayaraghavan, Srinivasan (1997), Professor
• Ward, David (2015), Professor, Ph.D., University of KwaZulu-Natal, 1988
• Welshhans, Kristy (2011), Assistant Professor, Ph.D., Georgia State University, 2008
• Zhu, Haiyan (2010), Assistant Professor, M.S., University of Kentucky, 1998

Department of Chemistry and Biochemistry Faculty
• Abeyasingunawardena, Sanjay C. (2015), Assistant Professor, Ph.D., Wayne State University, 2008
• Abraham, Ann C. (2004), Associate Professor, Ph.D., University of Pittsburgh, 1983
• Basu, Soumitra (2005), Associate Professor, Ph.D., Thomas Jefferson University, 1997
• Blaik, Salah M. (1997), Associate Professor, Ph.D., The Ohio State University, 1988
• Bowers, David J. (2013), Assistant Professor
• Bunge, Scott D. (2004), Associate Professor, Ph.D., Georgia Institute of Technology, 2001
• Burns, Andrew (1994), Professor, Ph.D., Brown University, 1990
• Cubon-Bell, Valerie A. (2010), Assistant Professor, Ph.D., Princeton University, 2008
• Datta, Bansidhar (2000), Associate Professor, University of Nebraska-Lincoln, 1989
• Ding, Tang (2006), Associate Professor, Ph.D., University of Akron, 2006
• Dunietz, Barry (2012), Associate Professor
• Earley, Clarke W. (1995), Associate Professor, Ph.D., University of Illinois-Urbana, 1987
• Ekanayake, Sujeewani K. (2012), Assistant Professor
• Fenk, Christopher J. (1990), Professor, Ph.D., University of Pittsburgh, 1987
• Fouad, Faird S. (2008), Associate Professor, Ph.D., Northeastern University, 2003
• Gregory, Roger B. (1984), Professor, Ph.D., Sheffield University, 1980
• Jaroniec, Mietek (1988), Professor
• Khitrin, Anatoly K. (2002), Professor
• Leslie, Margaret R. (2004), Associate Professor, Ph.D., Rhodes University, 1995
• Mao, Hanbin (2005), Professor, Ph.D., Texas A&M University, 2003
• Motry, Douglas H. (1996), Associate Professor, Ph.D., Michigan State University, 1996
• Pal Chaudhuri, Urmiia (2008), Associate Professor, Ph.D., Indian Institute of Technology Madras, 2004
• Sampson, Paul (1985), Professor, Ph.D., University of Birmingham, 1983
• Seed, Alexander J. (1996), Associate Professor
• Shelley, Jacob T. (2014), Assistant Professor, Ph.D., Indiana University-Bloomington, 2011
• Stroup, Diane (2000), Associate Professor, Ph.D., The Ohio State University, 1992
• Subramanian, Pritha (2006), Assistant Professor, Ph.D., The Ohio State University, 2013
• Tandon, Santokh S. (2004), Professor, Ph.D., Guru Nanak Dev University, 1979
• Tubergen, Michael J. (1995), Professor, Ph.D., University of Chicago, 1991
• Twieg, Robert (1997), Professor
• Wang, Zhiqiang (2007), Associate Professor
• Zheng, Yaorong (2015), Assistant Professor, Ph.D., University of Utah, 2011

Department of Computer Science Faculty
• Bansal, Arvind K. (1988), Professor, Ph.D., Case Western Reserve University, 1985
• Dragan, Feodor F. (2000), Professor
• Foreback, Dianne (2013), Assistant Professor, Ph.D., Kent State University, 2015
• Ghazinour Naini, Kambiz (2015), Assistant Professor, Ph.D., University of Calgary, 2012
• Guercio, Angela (1999), Associate Professor, Ph.D., Kent State University, 2004
• Jaroniec, Mietek (1988), Professor
• Khan, Javed I. (1997), Professor and Department Chair, Ph.D., University of Hawaii-Manoa, 1995
• Lu, Cheng-Chang (1988), Professor, Ph.D., Southern Methodist University, 1988
Department of Economics Faculty

- Barnette, Justin (2011), Assistant Professor, Ph.D., University of Minnesota-Twin Cities, 2012
- Dechenaux, Emmanuel (2004), Associate Professor, Ph.D., Purdue University, 2004
- El-Bahnasawy, Nasr G. (2007), Assistant Professor, Ph.D., Colorado State University, 2008
- Ellis, Michael A. (1990), Associate Professor, Ph.D., Texas A&M University, 1991
- Engelhardt, Lucas M. (2010), Assistant Professor, Ph.D., The Ohio State University, 2010
- Greenhalgh-Stanley, Nadia (2009), Associate Professor, Ph.D., Syracuse University, 2009
- Harris, Jeremiah R. (2014), Assistant Professor, Ph.D., Purdue University, 2014
- Hayduk, Iryna (2014), Assistant Professor, Ph.D., University of Houston, 2014
- Johnson, Eric D. (2005), Associate Professor
- Kang, Wensheng (2009), Associate Professor, Ph.D., University of Missouri, 2009
- Leontieva, Ludmila (2007), Lecturer
- Liu, Dandan (2008), Associate Professor, Ph.D., Texas A&M University, 2005
- Mukherjee, Deepraj (2012), Assistant Professor, Ph.D., University of Memphis, 2010
- Park, Jooyoun (2009), Assistant Professor, Ph.D., University of Michigan, 2009
- Reynolds, Curtis Lockwood (2007), Associate Professor, Ph.D., University of Michigan, 2007
- Rohlín, Shawn M. (2012), Associate Professor
- Williams, Donald R. (1983), Professor and Department Chair, Ph.D., Northwestern University, 1984
- Wilson, Kathryn S. (1996), Professor, Ph.D., University of Wisconsin-Madison, 1996

Department of English Faculty

- Abuzeid, Ayham (2007), Lecturer, B.A., Kent State University, 2008
- Bice, Deborah M. (1997), Associate Professor, Ph.D., Case Western Reserve University, 1995
- Bowers, Abigail L. (2011), Assistant Professor
- Bowles, Noelle K. (2001), Associate Professor, Ph.D., University of Miami, 1996
- Bracher, Mark F. (1985), Professor, Ph.D., Vanderbilt University, 1981
- Brodsky, Adam H. (2008), Lecturer, M.A., Kent State University, 2011
- Byrne, Peter M. (2008), Associate Professor, Ph.D., University of California-Irvine, 2004
- Camden, Vera J. (1984), Professor, Ph.D., University of Virginia, 1986
- Canacci, James E. (1995), Associate Lecturer, M.A., Youngstown State University, 1995
- Christen-Syed, Shannon L. (2010), Lecturer, M.A., Kent State University, 2004
- Ciuba, Gary M. (1986), Professor, Ph.D., Fordham University, 1986
- Clewell, Tammy (2000), Professor, Ph.D., Florida State University, 2000
- Culleton, Claire A. (1990), Professor, Ph.D., University of Miami, 1989
- Cunningham, Jennifer M. (2009), Assistant Professor, Ph.D., Kent State University, 2012
- Cutting, Sara G. (1990), Associate Lecturer, L.S.M., Kent State University, 1990
- Daniels, Martha E. (2010), Lecturer, Ed.D., Walden University, 2008
- Dauterich, Edward IV (1997), Professor, Ph.D., Kent State University, 2006
- Davis Patterson, Kathy S. (2000), Associate Professor, Ph.D., The Ohio State University, 1999
- Delaney, Laurie E. (1995), Assistant Professor, M.A., Youngstown State University, 1991
- Devere, Elizabeth E. (2010), Lecturer, M.A., New Mexico Highlands University, 2009
- Dugas, Don-John (2005), Associate Professor, Ph.D., Pennsylvania State University, 1999
- Dunmire, Patricia L. (1995), Professor, Ph.D., Carnegie Mellon University, 1995
- Elder, Dolores M. (2009), Lecturer, M.A., Kent State University, 2010
- Ellis, Marnie K. (2003), Lecturer, M.F.A., Bowling Green State University, 1999
- Erritouni, Ali (2005), Associate Professor, Ph.D., University of Miami, 2004
- Fein, Susanna G. (1985), Professor, Ph.D., Harvard College, 1985
- Floyd, Kevin R. (1998), Associate Professor, University of Iowa, 1998
- Gaston, Paul L. (1999), Trustees Professor, Ph.D., University of Virginia, 1970
- Hakutani, Yoshinobu (1968), Professor, Ph.D., Pennsylvania State University, 1965
- Hamrick, Phillip M. (2013), Assistant Professor, Ph.D., Georgetown University, 2013
- Harrison, Denise A. (2005), Lecturer, M.A., Miami University, 2001
- Hediger, Ryan R. (2011), Associate Professor, Ph.D., University of Oregon, 2005
- Hendrickx, Jessy A. (2015), Lecturer, M.A., Kent State University, 2002
- Howard, Elizabeth A. (2000), Professor, B.A., Kent State University, 1987
- Huo, Brian A. (2004), Professor, Ph.D., Indiana University of Pennsylvania, 1988
• Judge, Jeffrey W. (2013), Assistant Professor, Ph.D., Walden University, 2010
• Karman, Barbara A. (1995), Professor, Ph.D., Kent State University, 2013
• King, Robert J. (1998), Associate Professor, M.F.A., Indiana University-Bloomington, 1998
• Krishnan, Uma S. (2001), Professor, Ph.D., Kent State University, 2014
• Li, Hua (2011), Lecturer, M.A., Kent State University, 2013
• Lieske, Pamela J. (1997), Professor, Ph.D., University of Massachusetts-Amherst, 1996
• Lloyd, Keith S. (2002), Associate Professor, Ph.D., University of Louisville, 1996
• Lynch, Michael F. (1981), Associate Professor, Ph.D., Kent State University, 1985
• Lyons, Janet L. (2010), Lecturer, M.A., Kent State University, 2011
• Lyons, Jo-Leigh (1991), Senior Lecturer, M.A., Kent State University, 1996
• M'Baye, Babacar (2006), Associate Professor, Ph.D., Bowling Green State University, 2002
• Martinez, Ann M. (2014), Assistant Professor, Ph.D., University of Kansas, 2014
• McVay, Christina M. (1981), Senior Lecturer, M.A., Kent State University, 1984
• Mechenbier, Mahli X. (1996), Associate Lecturer, J.D., University of Akron, 2002
• Metz, John (2010), Associate Lecturer, M.A., University of Toledo, 1985
• Miller, Ryan T. (2014), Assistant Professor, Ph.D., Carnegie Mellon University, 2013
• Miltner, Robert F. (1987), Professor, Ph.D., Kent State University, 1998
• Mokros, Molly M. (2009), Lecturer
• Moneysmith, Jayne A. (1996), Associate Professor
• Neaderhiser, Stephen E. (2009), Assistant Professor, M.A., University of Kansas, 2004
• Neiderman, Beverly A. (1990), Senior Lecturer, M.A., Bowling Green State University, 1980
• Newman, Sara J. (1998), Professor, Ph.D., University of Minnesota-Twin Cities, 1998
• O'Connor, Varley (2007), Associate Professor, M.F.A., University of California-Irvine, 1989
• Orr, Katherine M. (1990), Professor, Ph.D., Kent State University, 2010
• Paulenich, Craig F. (1989), Professor, Ph.D., Bowling Green State University, 1989
• Pfrenger, Andrew M. (2010), Assistant Professor, M.A., University of Connecticut, 2003
• Pfrenger, Wendy (2010), Lecturer, M.A., University of Connecticut, 2003
• Piccirillo-Smith, Linda A. (1983), Senior Lecturer, M.A., Kent State University, 1980
• Powers, Marsha K. (2006), Associate Professor, Ph.D., Miami University, 1999
• Precht-Byrd, Kristen (2000), Assistant Professor, Ph.D., Northern Arizona University, 2000
• Prescott, Renate W. (1993), Associate Professor, Ph.D., Bowling Green State University, 1990
• Raabe, Wesley (2008), Associate Professor, Ph.D., University of Virginia, 2006
• Remley, Dirk R. (1990), Professor, Ph.D., Kent State University, 2010
• Rilling, Sarah E. (2002), Associate Professor, Ph.D., Northern Arizona University, 1998
• Rivers, J.L. (2006), Assistant Professor, Ph.D., Southern Illinois University-Carbondale, 2000
• Robinson, Carol L. (2000), Associate Professor, Ph.D., University of Georgia, 1994
• Roman, Christopher M. (1997), Associate Professor, Ph.D., University of Alabama, 2004
• Rooks, Mary Ann (2005), Assistant Professor
• Rozner, Debora L. (2010), Lecturer, M.Ed., George Washington University, 2004
• Sainato, Susan M. (1987), Associate Professor, Ph.D., Kent State University, 2002
• Sanders, Michael T. (1995), Assistant Professor, Ph.D., Kent State University, 2006
• Saylor, Derek J. (2012), Lecturer, M.A., University of Akron, 2012
• Schaffler, Charlene B. (1991), Associate Lecturer, M.A., Kent State University, 1994
• Schmitter, Thomas C. (1989), Lecturer, M.A., Youngstown State University, 1986
• Shaker, Bonnie (2013), Assistant Professor
• Shank, Matthew A. (1983), Associate Lecturer, M.A., University of Akron, 1982
• Shaw, Margaret L. (1993), Associate Professor, Ph.D., University of Pittsburgh, 1988
• Simpson, Barry H. (2009), Lecturer, M.Ed., Cleveland State University, 2001
• Sloan, Jay D. (2000), Associate Professor, Ph.D., Marquette University, 1999
• Smith, Brenda R. (2004), Associate Professor, Ph.D., Case Western Reserve University, 2003
• Smith, Jeanne R. (1985), Associate Lecturer, M.A., Binghamton University, State University of New York, 1986
• Stewart, Matthew R. (1998), Associate Lecturer, M.A., Kent State University, 1980
• Stoker, John B. (1974), Assistant Professor, M.A., Kent State University, 1977
• Sturr, Robert D. (1997), Associate Professor
• Takayoshi, Pamela D. (2004), Professor, Ph.D., Indiana University-Purdue University Indianapolis, 1995
• Trogdon, Bob W. (1997), Professor and Department Chair, Ph.D., University of South Carolina-Columbia, 1996
• Uhrig, Mindy D. (2006), Lecturer, M.A., University of Alabama, 2006
• Van Ittersum, Derek (2008), Associate Professor, M.A., Kent State University, 2003
• Vogel, Lauren A. (2001), Lecturer, M.A., Kent State University, 2005
• Walker, Cynthia A. (2015), Lecturer
• Wetzel, Ana M. (2007), Assistant Professor, Ph.D., Indiana University of Pennsylvania, 2011
• Willey, Nicole L. (1997), Associate Professor, Ph.D., University of Alabama, 2003
Department of Finance Faculty

- Baran, Lindsay C. (2011), Assistant Professor, Ph.D., University of North Carolina-Charlotte, 2010
- Beier, Lois J. (1985), Associate Professor, J.D., University of Akron, 1980
- Dennis, Steven A. (2014), Professor and Department Chair, Ph.D., University of Kentucky, 1993
- Dumpe, David A. (1991), Associate Professor, Ph.D., Kent State University, 1996
- Muthuswamy, Jayaram (2007), Associate Professor, Ph.D., University of Chicago, 1990
- Pu, Xiaoling X. (2008), Associate Professor, Ph.D., University of Massachusetts-Amherst, 2008
- Shynkevich, Andrei (2009), Associate Professor, Ph.D., Louisiana State University, 2009
- Thornton, John H. (1999), Associate Professor, Ph.D., Georgia State University, 1999
- Via, Marc (2014), Assistant Professor, Ph.D., University of Alabama, 2011

Department of Geography Faculty

- Amey, Katherine S. (2009), Assistant Professor, Ph.D., Kent State University, 2011
- Curtis, Andrew J. (2012), Professor
- Curtis, Jacqueline W. (2012), Assistant Professor, Ph.D., Louisiana State University, 2005
- Haley, Mary Ann (1993), Assistant Professor
- Lee, Jay (1991), Professor, Ph.D., University of Western Ontario, 1989
- Mapes, Jennifer E. (2012), Assistant Professor, Ph.D., University of Southern California, 2009
- Muller, Keith D. (1990), Associate Professor
- Munro-Stasiuk, Mandy (1999), Professor, Ph.D., University of Alberta, 1999
- Parylak, Rebecca P. (2008), Associate Professor, Ph.D., Texas State University, 2010
- Post, Christopher (2008), Associate Professor, Ph.D., University of Kansas, 2006
- Schmidlin, Thomas W. (1985), Professor, Ph.D., Cornell University, 1984
- Sheridan, Scott C. (2000), Professor, Ph.D., University of Delaware, 2000
- Smiley, Sarah L. (2010), Associate Professor, Ph.D., University of Kansas, 2007
- Turner, Victoria K. (2013), Assistant Professor, Ph.D., Arizona State University, 2013
- Tyner, James A. (1997), Professor, Ph.D., University of Southern California, 1995
- Widner, Emariana S. (2009), Associate Professor, Ph.D., Texas State University, 2009
- Ye, Xinyue (2013), Assistant Professor, Ph.D., San Diego State University, 2010

Department of Geology Faculty

- Beier, Lois J. (1985), Associate Professor, J.D., University of Akron, 1980
- Dennis, Steven A. (2014), Professor and Department Chair, Ph.D., University of Kentucky, 1993
- Dumpe, David A. (1991), Associate Professor, Ph.D., Kent State University, 1996
- Muthuswamy, Jayaram (2007), Associate Professor, Ph.D., University of Chicago, 1990
- Pu, Xiaoling X. (2008), Associate Professor, Ph.D., University of Massachusetts-Amherst, 2008
- Shynkevich, Andrei (2009), Associate Professor, Ph.D., Louisiana State University, 2009
- Thornton, John H. (1999), Associate Professor, Ph.D., Georgia State University, 1999
- Via, Marc (2014), Assistant Professor, Ph.D., University of Alabama, 2011

Department of History Faculty

- Adams, Kevin J. (2006), Associate Professor, Ph.D., University of California-Berkeley, 2004
- Bindas, Kenneth J. (1995), Professor and Department Chair, Ph.D., University of Toledo, 1988
- Crawford, Matthew J. (2009), Assistant Professor, Ph.D., University of California-San Diego, 2009
- Diano, Todd A. (2012), Professor and Senior Vice President for Academic Affairs and Provost, Ph.D., University of Wisconsin-Madison, 1987
- Grahm, Lance R. (2015), Campus Dean, Ph.D., Duke University
- Gruenwald, Kim M. (1995), Associate Professor, Ph.D., University of Colorado-Boulder, 1994
- Heaphy, Leslie Anne (1995), Associate Professor, Ph.D., University of Toledo, 1995
- Heiss, Mary Ann (1992), Associate Professor, Ph.D., The Ohio State University, 1991
- Hudson, Leonne M. (1983), Associate Professor, Ph.D., Kent State University, 1990
- Keeler, Bradley S. (1987), Associate Professor, Ph.D., Kent State University, 2006
- Li, Hongshan (1993), Professor, Ph.D., University of Missouri-Columbia, 1992
• Menning, Ralph R. (2006), Assistant Professor
• Pino, Julio Cesar (1992), Associate Professor, Ph.D., University of California-Los Angeles, 1991
• Scarnecchia, Timothy L. (2007), Associate Professor, Ph.D., University of Michigan, 1994
• Seelye, James E. (2010), Assistant Professor, Ph.D., University of Toledo, 2010
• Sergi, Molly M. (1991), Professor, Ph.D., Kent State University, 2015
• Smith, Elizabeth M. (2001), Associate Professor, Ph.D., Rutgers, The State University of New Jersey, 2001
• Starkey, Lindsay J. (2012), Assistant Professor, Ph.D., University of Wisconsin-Madison, 2012
• Steigmann-Gall, Richard A. (2000), Associate Professor, Ph.D., University of Toronto, 1999
• Strate, Shane (2013), Assistant Professor, Ph.D., University of Wisconsin-Madison, 2009
• Thyret, Isolde R. (1994), Associate Professor, Ph.D., University of Washington, 1992
• Wamsley, Esther S. (2005), Assistant Professor, Ph.D., The Ohio State University, 1998
• Wunderlin, Clarence E. (1988), Professor, Ph.D., Northeastern Illinois University, 1987

Department of Management Information Systems Faculty
• Akpan, Ikpe A. (2012), Assistant Professor, Ph.D., Lancaster University, 2006
• Antenucci, Robert P. (2010), Assistant Professor, Ph.D., Kent State University, 2013
• Arikan, Asli M. (2014), Assistant Professor, Ph.D., The Ohio State University, 2004
• Arikan, Ilgaz (2014), Assistant Professor
• Berardi, Victor L. (1993), Associate Professor, Ph.D., Kent State University, 1998
• Blundell, Gregory E. (2001), Associate Professor, Ph.D., Kent State University, 2015
• Breadyberry, Alan A. (2000), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1985
• Datta, Pratim (2007), Associate Professor, Ph.D., Louisiana State University, 2003
• Derubertis, Diane E. (2008), Lecturer, M.Ed., Kent State University, 1983
• Drago, Natalia (2003), Assistant Professor, Ph.D., Kent State University, 2010
• Dubois, Cathy L. (1992), Associate Professor and Associate College Dean, Ph.D., University of Minnesota-Twin Cities, 1991
• Duchon, Michael S. (2000), Assistant Professor, Ed.D., Nova Southeastern University, 2012
• Gomez, Claudia (2013), Assistant Professor, Ph.D., New Mexico State University, 2012
• Guflifrida, Alfred L. (2006), Associate Professor, Ph.D., State University of New York at Buffalo, 2005
• Hogue, Mary B. (2001), Associate Professor, Ph.D., University of Akron, 2000
• Knapp, Deborah K. (1992), Associate Professor, Ph.D., Kent State University, 1994
• Kwak, Dong-Heon (2014), Assistant Professor, Ph.D., University of Wisconsin-Milwaukee, 2014
• Landingham, Velvet L. (2004), Associate Professor, Ph.D., Case Western Reserve University, 2004
• Levanshina, Julia (2008), Associate Professor, Ph.D., Purdue University, 2005
• Offodile, Oneyebuchi Felix (1988), Professor and Department Chair, Ph.D., Texas Tech University, 1984
• Patuwo, Eddy B. (1988), Professor, Ph.D., Virginia Polytechnic Institute and State University, 1989
• Polites, Greta L. (2012), Assistant Professor
• Por, Dean A. (2004), Assistant Professor, Ph.D., Regent University, 2004
• Riczo, Steve (2014), Lecturer, M.H.A., Xavier University, 1982
• Shanker, Murali S. (1990), Professor
• Steinberg, Geoffrey (1991), Associate Professor, Ph.D., Temple University, 1991
• Stirbens, Kathleen A. (1993), Associate Lecturer, M.B.A., Indiana University of Pennsylvania, 1984
• Whitmore, Mark D. (2011), Assistant Professor, Ph.D., The Ohio State University, 1985

Department of Marketing and Entrepreneurship Faculty
• Anokhin, Sergey A. (2002), Associate Professor, Ph.D., Case Western Reserve University, 2006
• Bridges, Eileen (1994), Professor, Ph.D., Northwestern University, 1987
• Campbell, Colin (2013), Assistant Professor, Ph.D., Simon Fraser University, 2011
• Daniels, Ellen P. (1981), Lecturer, M.B.A., Kent State University, 1986
• Easterling, Denise M. (2009), Lecturer, M.B.A., Ashland University, 2006
• Grimm, Pamela E. (1992), Associate Professor, Ph.D., State University of New York at Buffalo, 1993
• Groening, Christopher (2013), Assistant Professor
• Heidler, Mary R. (2011), Lecturer, M.B.A., American University, 1995
• Hisrich, Robert D. (2015), Professor and College Associate Dean, Ph.D., University of Cincinnati, 1971
• Howell, William P. (1986), Assistant Professor, Ph.D., Kent State University, 1996
• Jewell, Robert D. (2004), Professor and Department Chair, Ph.D., Ohio University, 1999
• Marks, Lawrence J. (1986), Associate Professor
• Mayo, Michael A. (1986), Associate Professor
• Sokira, Walter J. (2003), Lecturer, M.B.A., Kent State University, 1991
• Stettler, Tatiana (2015), Assistant Professor, Ph.D., University of Bern, 2014
• Thacker, Donald (1998), Associate Lecturer, M.B.A., Kent State University, 1996
• Wang, Tuo (2004), Associate Professor, Ph.D., University of Pittsburgh, 2004
• Wiggins Johnson, Jennifer A. (2006), Associate Professor, Ph.D., University of Wisconsin-Madison, 2006
• Zamary, Craig J. (2008), Lecturer, M.B.A., Kent State University, 2012
• Zamudio Michelsen, Cesar A. (2013), Assistant Professor, Ph.D., University of Texas-Dallas, 2013
Department of Mathematics Faculty

• Adams, Lynn (2007), Associate Lecturer, M.S., University of Akron, 2007
• Ahuja, Om P. (2000), Professor, Ph.D., University of Khartoum, 1981
• Alexopoulos, John K. (1994), Associate Professor, Ph.D., Kent State University, 1992
• Allouba, Hassan A. (2002), Associate Professor, Ph.D., Cornell University, 1996
• Alotbeyli, Joseph A. (1997), Associate Professor, Ph.D., The Ohio State University, 1996
• Andaloro, Paul J. (1994), Assistant Professor, Ph.D., The Ohio State University, 1989
• Andriyevsky, Volodymyr (2000), Professor
• Barb, Cynthia M. (1990), Associate Professor, Ph.D., Kent State University, 1997
• Chebotar, Mikhail (2006), Associate Professor, Ph.D., Moscow State University, 1999
• Das, Lovejoy S. (1989), Professor, Ph.D., University of Lucknow, 1979
• Davidson, Morley (1996), Associate Professor
• Del Pizzo, Lawrence F. (1969), Assistant Professor, M.A., Kent State University, 1969
• Dhaher, Yaser Y. (1989), Associate Professor, Ph.D., Kent State University, 2001
• Dialesandro, Jack J. (1983), Associate Lecturer, M.Ed., Kent State University, 1983
• Dinh, Hai Q. (2004), Professor, Ph.D., Ohio University, 2003
• Feng, Bao Qi (1996), Associate Professor, Ph.D., Kent State University, 2001
• Gagola, Stephen M. (1982), Professor, Ph.D., University of Wisconsin-Madison, 1974
• Gartland, Eugene C. (1987), Professor, Ph.D., Purdue University, 1980
• He, Min (1995), Professor
• Heinbach, Charles C. (1978), Senior Lecturer, B.A., Kent State University, 1977
• Hovhannisyan, Gro (2003), Associate Professor, Ph.D., Yerevan State University, 1990
• Hrubik-Vulanovic, Tatjana (2002), Assistant Professor, Ph.D., Kent State University, 2013
• Jahangiri, Jay M. (1994), Professor, Ph.D., University of York, 1986
• Jaye, Benjamin J. (2011), Assistant Professor
• Kasturiarachi, A. Bathi (1995), Associate Professor and Assistant Campus Dean
• Kellerman, Mary K. (1987), Senior Lecturer, M.A.T., Kent State University, 1993
• Khan, Mohammad Kazim (1981), Professor, Ph.D., Case Western Reserve University, 1980
• Kover, Janice S. (1996), Associate Professor, Ph.D., Kent State University, 2001
• Kracht, Darci L. (1984), Associate Professor, Ph.D., Kent State University, 2011
• Kratky, Joseph J. (2005), Lecturer, M.S., Kent State University, 2011
• Laux, Tracy A. (1990), Senior Lecturer, B.S., Kent State University, 1990
• Lewis, Mark L. (1996), Professor, Ph.D., University of Wisconsin-Madison, 1995
• Li, Jing (2003), Associate Professor, Ph.D., New York University, 2002
• Li, Jun (2013), Assistant Professor, Ph.D., Iowa State University, 2013
• Lochmueller, Kerri K. (2005), Lecturer, M.S., Youngstown State University, 2008
• Lomonosov, Victor (1990), Professor, Ph.D., V.N. Karazin Kharkiv National University, 1974
• Manchester, Peggy D. (1991), Associate Lecturer, M.Ed., Kent State University, 2011
• Meyer, Lorree L. (1994), Associate Lecturer, M.Ed., Kent State University, 2004
• Minervino, Joseph M. (1983), Associate Lecturer
• Mocioalca, Oana (2004), Associate Professor, Ph.D., University of Florida, 2002
• Muckridge, Nicole A. (2007), Lecturer, M.A., Kent State University, 2009
• Mulqueeny, Ellen S. (2005), Assistant Professor, M.S., Cleveland State University, 1993
• Najafi, Mahmoud (1995), Professor, Ph.D., Wichita State University, 1994
• Nazarov, Fedor L. (2011), Professor
• Neuzil, John P. (1969), Associate Professor, Ph.D., University of Iowa, 1969
• Nuroh, Kofi (1990), Professor, Ph.D., Chalmers University of Technology, 1978
• Osikiewicz, Beth-Allyn (1994), Associate Professor, Ph.D., Kent State University, 2000
• Osikiewicz, Jeffrey A. (1990), Associate Professor, Ph.D., Kent State University, 1997
• Perera, Vicumpriona S. (1998), Associate Professor, Ph.D., Purdue University, 1993
• Pham, Tuyet D. (1988), Associate Lecturer, M.S., University of Akron, 1988
• Polanski, Teresa S. (1987), Associate Lecturer, M.A.T., Kent State University, 1994
• Rajagopal, Parthasarathy (1987), Assistant Professor
• Rajaram, Rajeev (2008), Associate Professor, Ph.D., Iowa State University, 2005
• Reed, Beverly M. (1986), Associate Professor, Ph.D., Kent State University, 2007
• Reichel, Lothar (1991), Professor, University of Stockholm, Ph.D., 1982
• Rollick, Mary E. (1997), Associate Professor, Ph.D., Kent State University, 2007
• Ruchotzke, Randy L. (1994), Lecturer, M.A., Iowa State University, 1986
• Ruff, Oliver (2009), Assistant Professor, Ph.D., University of Oregon, 2002
• Ryabogin, Dmitry (2007), Professor, Ph.D., University of Jerusalem, 2001
• Sharp, Mary Theresa L. (1997), Assistant Professor, Ph.D., Kent State University, 2014
• Shoop, Richard A. (1993), Associate Professor
• Smithies, Laura A. (1997), Associate Professor, Ph.D., University of Utah, 1997
• Soprunova, Evgenia (2007), Associate Professor, Ph.D., University of Toronto, 2002
Department of Modern and Classical Language Studies Faculty

- Taha, Nader F. (1990), Associate Lecturer, M.S., Tennessee State University, 1989
- Tonge, Andrew M. (1985), Professor and Department Chair, Ph.D., University of Cambridge, 1976
- Vezvai, Mahbobeh (1983), Professor, Ph.D., Case Western Reserve University, 1987
- Vorhauer, Ulrike M. A. (2001), Associate Professor, Ph.D., University of Ulm, 1996
- Vulanovic, Relja (1992), Professor, Ph.D., University of Novi Sad, 1986
- Wakita, Hideki (1998), Associate Lecturer, M.A., Kent State University, 2002
- Wallach, Tracy A. (1984), Associate Lecturer, M.Ed., Kent State University, 1989
- White, Donald L. (1989), Professor, Ph.D., Yale University, 1987
- Wright, Brian M. (1998), Assistant Professor, Ph.D., Kent State University, 2007
- Yu, Gang (2006), Associate Professor, Ed.D., University of Georgia, 2000
- Zheng, Xiaoyu (2006), Associate Professor, Ph.D., University of North Carolina-Chapel Hill, 2006
- Zvavitch, Artem (2004), Professor, Ph.D., Weizmann Institute of Science, 2002

Department of Pan-African Studies Faculty

- Baer, Brian J. (1996), Professor, Ph.D., Yale University, 1996
- Bell, Sharon M. (1990), Assistant Professor, Ph.D., Brown University, 1987
- Berrong, Richard M. (1985), Professor, Ph.D., Cornell University, 1977
- Bystrova-McIntyre, Tatyana (2002), Assistant Professor, Ph.D., Kent State University, 2012
- Carduner, Jessie (1999), Associate Professor, Ph.D., University of Pittsburgh, 1998
- Castaneda, Daniel (2007), Associate Professor, Ph.D., West Virginia University, 2007
- Chism, Rebecca L. (1999), Associate Professor, Ph.D., Florida State University, 2000
- De Julio, MaryAnn (1986), Professor, Ph.D., University of Iowa, 1979
- Dunne, Keiran J. (2000), Professor and Department Chair, Ph.D., Pennsylvania State University, 2000
- Dzero, Irina (2010), Assistant Professor
- Ehrman, Radd K. (1982), Professor, Ph.D., University of Illinois-Chicago, 1982
- Fatchet-McGee, Lori L. (1995), Associate Lecturer, M.A., Kent State University, 1997
- Gallagher, Patrick L. (2001), Associate Professor, Ph.D., University of Iowa, 1997
- Harvey, Brian K. (1999), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1998
- Harvey, Sarah (2001), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1999
- Hermosilla, Luis G. (1994), Associate Professor, Ph.D., The Ohio State University, 1994
- Hogue, Randall L. (2012), Assistant Professor, Ph.D., Gallaudet University, 2011
- Koby, Geoffrey S. (1994), Associate Professor, Ph.D., University of Wisconsin-Madison, 1992
- Lacruz, Isabel (2008), Assistant Professor, Ph.D., Kent State University, 2005
- Larson, Jennifer L. (1992), Professor, Ph.D., University of Wisconsin-Madison, 1992
- Libbon, Stephanie E. (2002), Associate Professor, Ph.D., The Ohio State University, 2000
- Massardier-Kenney, Francoise M. (1988), Professor
- Nehring, Lawrence J. (2008), Lecturer, M.S., University of Rochester, 1991
- Rivera, Olga I. (1999), Professor, Ph.D., The Ohio State University, 1998
- Romero-Gonzalez, Mariana (2009), Lecturer, M.A., Kent State University, 2012
- Rossoll, Hildegard M. (1988), Associate Professor, Ph.D., Washington University in St. Louis, 1991
- Sato, Paula (2009), Assistant Professor, Ph.D., University of Virginia, 2008
- Shiyyab, Said M. (2014), Professor
- Shuman, Mason P. (2005), Lecturer, M.A., Kent State University, 2006
- Siciarz, Stephanie J. (2012), Lecturer, M.A., Johns Hopkins University, 2007
- Stasiowski, Kristin (2013), Assistant Professor
- Talentino, Kimberly L. (2007), Lecturer, M.A., Kent State University, 1991
- Tanaka, Eriko (2010), Lecturer, M.A., Bowling Green State University, 2001
- Trzeciak Huss, Joanna (2006), Associate Professor
- Vickery, Steve C. (1997), Lecturer, B.A., Kent State University, 1998
- Wakabayashi, Judy F. (2002), Professor, Ph.D., University of Southern Queensland, 1993
- Washbourne, Richard Kelly (2003), Professor, Ph.D., University of Massachusetts-Amherst, 2002
- Wright, Sue Ellen (1989), Professor
- Yu, Hui (2012), Lecturer
- Zaldivar, Maria E. (2007), Associate Professor, Ph.D., Pennsylvania State University, 1991
Department of Philosophy Faculty

- Barnbaum, Deborah R. (1997), Professor and Department Chair, Ph.D., University of Massachusetts-Amherst, 1996
- Byron, B. Michael (1997), Associate Professor, Ph.D., University of Notre Dame, 1996
- Garchar, Kimberly K. (2008), Associate Professor, Ph.D., University of Oregon, 2006
- Ikuenobe, Polycarp A. (1997), Professor, Ph.D., Wayne State University, 1993
- Kim, Jung-Yeup (2008), Assistant Professor, Ph.D., University of Hawaii-Manoa, 2008
- Norton-Smith, Thomas M. (1985), Professor, Ph.D., University of Illinois-Urbana, 1988
- Odell-Scott, David W. (1990), Professor and Associate College Dean, Ph.D., Vanderbilt University, 1989
- Palmer, Daniel E. (2001), Associate Professor, Ph.D., Purdue University, 2000
- Perpeleyotchik, David (2013), Assistant Professor, Ph.D., State University of New York-City College, 2012
- Ryan, Frank X. (1997), Associate Professor, Ph.D., Emory University, 1996
- Smith, Deborah C. (1997), Associate Professor, Ph.D., University of Washington, 2003
- Uher, Clarence G. (1993), Associate Lecturer, M.A., Cleveland State University, 1991
- Williams, Linda L. (1990), Associate Professor, Ph.D., University of California-Riverside, 1983
- Zavota, Gina (2003), Associate Professor, Ph.D., State University of New York at Stony Brook, 2003

Department of Physics Faculty

- Almasan, Carmen C. (1995), Professor, Ph.D., University of South Carolina, 1989
- Antocheviz Dexheimer Strickland, Veronica A. (2013), Assistant Professor, Ph.D., Goethe Universitat, 2009
- Balci, Hamza (2009), Associate Professor, Ph.D., University of Maryland, 2004
- Barrick, John M. (1988), Associate Lecturer, Ed.S., Kent State University, 1988
- Driscoll, Donald D. (2007), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Dzero, Maxim (2010), Assistant Professor
- Ellman, Brett D. (1997), Associate Professor, Ph.D., University of Chicago, 1993
- Gleeson, James (1997), Professor and Department Chair, Ph.D., Kent State University, 1991
- Katramatou, A. Mina T. (1996), Associate Professor, Ph.D., American University, 1988
- Keane, Declan F. (1988), Professor
- Li, Ran (2007), Associate Professor, Ph.D., Southern Illinois University, 2007
- Lussem, Bjorn (2014), Assistant Professor
- Manley, Mark D. (1986), Professor, Ph.D., University of Wyoming, 1981
- Mann, Elizabeth K. (1998), Professor, Ph.D., University of Paris, 1992
- Margetis, Spyridon (1997), Professor, Ph.D., Goethe Universitat, 1991
- Minnick, Stephen A. (2003), Professor, Ph.D., Pennsylvania State University, 2003
- Montgomery, Timothy E. (1985), Associate Lecturer
- Petratos, Gerassimos G. (1994), Professor, Ph.D., American University, 1988
- Portman, John J. (2003), Associate Professor, Ph.D., University of Illinois-Urbana, 2000
- Quader, Khandker F. (1990), Professor, Ph.D., State University of New York at Stony Brook, 1983
- Schroeder, Almut (2001), Associate Professor
- Secaur, Jonathan M. (1980), Assistant Professor, Ph.D., Kent State University, 1994
- Sprunt, Samuel N. (1995), Professor, Ph.D., Massachusetts Institute of Technology, 1989
- Strickland, Michael (2013), Associate Professor, Ph.D., Duke University, 1997

Department of Political Science Faculty

- Banks, Christopher P. (2006), Professor, Ph.D., University of Virginia, 1995
- Barnes, Andrew S. (2001), Associate Professor and Department Chair, Ph.D., Princeton University, 1999
- Boyd-Swan, Casey (2015), Assistant Professor, Ph.D., Arizona State University, 2015
- Carbonell, Joel R. (2007), Assistant Professor, Ph.D., University of California-Riverside, 2007
- Cassell, Mark K. (1998), Professor, Ph.D., University of Wisconsin-Madison, 1998
- Claassen, Ryan L. (2005), Professor, Ph.D., University of California-Davis, 2005
- Ensley, Michael J. (2009), Associate Professor, Ph.D., Duke University, 2002
- Hawes, Daniel P. (2008), Associate Professor, Ph.D., Texas A&M University, 2008
- Hook, Steven W. (1996), Professor, Ph.D., University of South Carolina, 1993
- Mazzel, Julie M. (2004), Associate Professor, Ph.D., American University, 2006
- Molina, Anthony D. (2013), Assistant Professor, Ph.D., Cleveland State University, 2004
- Paar-Jakli, Gabriella (1991), Assistant Professor, Ph.D., Kent State University, 2010
- Robyn, Richard C. (1994), Associate Professor, Ph.D., Kent State University, 2000
- Stacher, Joshua A. (2008), Associate Professor
- Sykes, Vernon L. (2001), Associate Professor, Ph.D., University of Akron, 2001

Department of Psychological Sciences Faculty

- Ben-Porath, Yossef S. (1990), Professor, Ph.D., University of Minnesota-Twin Cities, 1989
- Betz, Brian D. (1991), Associate Professor, Ph.D., Ohio University, 1987
- Blasiman, Rachael N. (2010), Assistant Professor, Ph.D., Case Western Reserve University, 2010
- Ciesla, Jeffrey (2007), Associate Professor, Ph.D., State University of New York at Buffalo, 2004
• Ciesla, Shannon (2007), Assistant Professor, Ph.D., Kent State University, 2013
• Coifman, Karin G. (2010), Assistant Professor, Doctorate, Columbia University, 2008
• Cremers-Smith, Julie K. (1998), Associate Professor, Ph.D., Kent State University, 2004
• Crowther, Janis H. (1980), Professor and Associate College Dean, Ph.D., University of Vermont, 1980
• DeCapito, Alberta L. (1985), Senior Lecturer
• Difrancesco, Dianne L. (2010), Assistant Professor, Ph.D., Indiana State University, 1985
• Dunlosky, John T. (2004), Professor, Ph.D., University of Washington, 1993
• Flessner, Christopher A. (2011), Assistant Professor, Ph.D., University of Wisconsin-Milwaukee, 2008
• Folk, Jocelyn R. (1999), Associate Professor, Ph.D., University of South Carolina-Columbia, 1997
• Fountain, Stephen B. (1984), Professor, Ph.D., Johns Hopkins University, 1981
• Fox-Cardamone, Donna Lee (1990), Associate Professor, Ph.D., Miami University, 1990
• Fresco, David M. (2001), Professor, Ph.D., University of North Carolina-Chapel Hill, 1999
• Galati, Ashley R. (2013), Assistant Professor, Ph.D., University of Kentucky, 2013
• Gere, Judith (2013), Assistant Professor
• Grau, Josefinia M. (1994), Associate Professor, Ph.D., University of Illinois-Chicago, 1992
• Gunstad, John J. (2005), Professor, Ph.D., Ohio University, 2002
• Hughes, Joel W. (2003), Professor, Ph.D., The Ohio State University, 2001
• Jasnow, Aaron (2011), Assistant Professor, Ph.D., Georgia State University, 2002
• Jones, Bryan A. (2010), Assistant Professor, Ph.D., State University of New York at Stony Brook, 2007
• Jones, Deborah A. (1995), Associate Professor, Ph.D., Miami University, 1995
• Joyner, Robin L. (2000), Associate Professor, Ph.D., Texas A&M University, 1998
• Keiller, Scott W. (1989), Assistant Professor, Ph.D., Kent State University, 1997
• Kerns, Kathryn A. (1989), Professor, Ph.D., State University of New York at Stony Brook, 1987
• Larwin, David A. (1985), Senior Lecturer, M.A., Kent State University, 1989
• Merriman, William E. (1985), Professor, Ph.D., University of Minnesota-Twin Cities, 1984
• Miller, Eric D. (1999), Associate Professor, Ph.D., University of Iowa, 1999
• Moore, Zachariah (2003), Assistant Professor, Ph.D., Kent State University, 2006
• Neal-Barnett, Angela M. (1989), Professor, Ph.D., DePaul University, 1988
• Rawson, Katherine A. (2004), Professor, Ph.D., University of Colorado-Boulder, 2004
• Riccio, David C. (1965), Professor
• Sato, Amy F. (2012), Assistant Professor, Ph.D., University of Wisconsin-Milwaukee, 2009
• Sciartelli, Sharon (2008), Ph.D., Associate Professor, Kent State University, 1995
• Sepek, Jon A. (2011), Assistant Professor, Ph.D., University of Arizona, 2007
• Shepherd, James B. (1986), Assistant Professor, Ph.D., Kent State University, 1996
• Spitznagel, Mary Beth (2009), Assistant Professor, Ph.D., Ohio University, 2003
• Tabak, Melanie (2003), Assistant Professor
• Thompson, Clarissa A. (2014), Assistant Professor, Ph.D., The Ohio State University, 2008
• Tkacz, Sharon (1993), Associate Professor, Ph.D., Bowling Green State University, 1981
• Tomich, Patricia L. (1994), Associate Professor, Ph.D., Kent State University, 2000
• Updegraff, Alanna S. (2012), Assistant Professor, Ph.D., University of California-Los Angeles, 2003
• Updegraff, John A. (2004), Professor, Ph.D., University of California-Los Angeles, 2002
• Van Dulmen, Manfred H. (2004), Professor, Ph.D., University of Minnesota-Twin Cities, 2001
• Wagon, Walter F. (2010), Professor
• Was, Christopher A., Associate Professor, Ph.D., University of Utah, 2005
• Wildman, Beth G. (1982), Professor, Ph.D., University of North Carolina-Chapel Hill, 1977
• Zaragoza, Maria S. (1984), Professor and Department Chair, Ph.D., Johns Hopkins University, 1984

Department of Sociology Faculty

• Adams, Richard E. (2007), Professor, Ph.D., Indiana University-Bloomington, 1989
• Berard, Timothy J. (2002), Associate Professor, Ph.D., Boston University, 2001
• Bergin, Tiffany (2013), Assistant Professor, Ph.D., University of Cambridge, 2011
• Bloch, Katrin R. (2008), Associate Professor, Ph.D., North Carolina State University, 2009
• Campbell, Beth A. (2005), Associate Lecturer
• Castellani, Brian C. (1993), Professor, Ph.D., Kent State University, 1997
• Chopko, Brian A. (2007), Associate Professor, Ph.D., University of Akron, 2007
• Drinkard, Allyson M. (2000), Assistant Professor, Ph.D., Kent State University, 2012
• Drum, Marna C. (2003), Associate Lecturer, M.A., University of Akron, 1994
• Dum, Christopher (2014), Assistant Professor, Ph.D., State University of New York at Albany, 2014
• Fisk, Susan R. (2015), Assistant Professor, Ph.D., Stanford University, 2015
• Foster, Michelle L. (2014), Assistant Professor, M.A., Kent State University, 2011
• Gallagher, Mary N. (2001), Assistant Professor, Ph.D., Kent State University, 2012
• Gibson, Gregory C. (2012), Assistant Professor, Ph.D., Purdue University, 2008
• Globokar, Julie L. (2011), Assistant Professor
• Goar, Carla D. (2010), Associate Professor, Ph.D., Texas A&M University, 2000
• Graff, David R. (1994), Senior Lecturer, M.S., Mercyhurst College, 1984
• Haas, Anne E. (2005), Associate Professor, Ph.D., The Ohio State University, 2005
• Jones, Adrian M. (2001), Assistant Professor, Ph.D., Kent State University, 2002
• Kalkhoff, William W. (2002), Associate Professor, Ph.D., University of Iowa, 2002
• Kessler, David A. (1995), Associate Professor
• Kunkle, Susan M. (2004), Assistant Professor, Ph.D., Kent State University, 2011
• Lansberry Thorne, Kasey (2015), Assistant Professor, Ph.D., University of Akron, 2015
• Leveto, Jessica A. (2005), Assistant Professor, Ph.D., Kent State University, 2012
• Licuanan-Galela, Maria N. (1995), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1995
• Marcussen, Kristen (2000), Associate Professor, Ph.D., University of Iowa, 2000
• Mastriacovo, Paul A. (1982), Associate Lecturer, J.D., University of Akron, 1978
• Nasheer, Hedieh (1990), Professor
• Owens, Timothy J. (2010), Professor, Ph.D., University of Minnesota-Twin Cities, 1988
• Pai, Manacy (2008), Associate Professor, Ph.D., Florida State University, 2008
• Purifoye, Gwendolyn (2014), Assistant Professor, Ph.D., Loyola University Chicago, 2014
• Rawlings, Lynette M. (2007), Associate Lecturer, M.P.A., Kent State University, 2006
• Rose, Lydia (2010), Assistant Professor
• Rose, Norman R. (2007), Assistant Professor
• Rousseau, Nicole (2008), Associate Professor, Ph.D., Howard University, 2006
• Roxburgh, Susan J. (1994), Professor
• Sabolich, Ivanka (1982), Associate Professor
• Schiller, Zach J. (2015), Assistant Professor, Ph.D., University of California-Davis, 2005
• Serpe, Richard T. (1995), Professor and Department Chair, Ph.D., Indiana University-Bloomington, 1985
• Spates, Kamesha (2013), Assistant Professor, Ph.D., Texas A&M University-Corpus Christi, 2009
• Stacey, Clare L. (2006), Associate Professor, Ph.D., University of California-Davis, 2004
• Taylor, Tiffany L. (2008), Associate Professor, Ph.D., North Carolina State University, 2008
• Tontodonato, Pamela (1987), Associate Professor, Ph.D., University of Pennsylvania, 1986
• Tudor, G. R. J. (1996), Associate Professor and Campus Dean, Ph.D., Kent State University, 2005
• Vander Horst, Anthony (2011), Assistant Professor
• Vazzana, John E. (1998), Associate Professor, Ph.D., University of Pittsburgh, 1994
• Warren, Deidre M. (2009), Associate Professor, Ph.D., Sam Houston State University, 2009
• Webster, Stephen W. (1984), Associate Professor, Ph.D., University of California-Riverside, 1983
• Wilson, Mary G. (1998), Associate Professor, Ph.D., Kent State University, 2010

School of Art Faculty

• Ball, Martin W. (1997), Associate Professor, M.A., Royal College of Art, 1973
• Buntin, Phillip D. (2006), Associate Professor, M.F.A., University of Connecticut, 2002
• Comito, Gianna E. (2005), Associate Professor, M.F.A., University of Iowa, 2003
• Dietrick, Kelly D. (1998), Lecturer, M.F.A., Savannah College of Art and Design, 2002
• Dorff, Juliann B. (1999), Senior Lecturer, M.A., Kent State University, 1998
• Ebanks, Davin (2005), Assistant Professor, M.F.A., Kent State University, 2010
• Farnsworth, Isabel (1997), Associate Professor, M.F.A., Kent State University, 1995
• Gasper-Hulvat, Marie (2013), Assistant Professor, Ph.D., Bryn Mawr College, 2012
• Hoeptner-Poling, Linda A. (1986), Associate Professor, M.A., Kent State University, 1998
• Johnson, Peter C. (2015), Assistant Professor, M.F.A., Pennsylvania State University, 2003
• Kan, Koon-Hwee (2003), Associate Professor, Ed.D., University of Illinois-Urbana, 2004
• Lessman-Moss, Janice (1981), Professor, M.F.A., University of Michigan-Ann Arbor, 1981
• Loderstedt, Michael J. (1982), Professor, M.F.A., Kent State University, 1985
• McMahon, Taryn (2014), Assistant Professor, M.A., University of Iowa, 2010
• McWhorter, Jack E. (1989), Associate Professor, M.A., Kent State University, 1983
• Medicus, Gustav F. (1989), Associate Professor, Ph.D., Indiana University-Bloomington, 1992
• Polo, Darice M. (2004), Associate Professor, M.F.A., University at Albany-SUNY, 1999
• Reischuck, Albert W. (1990), Associate Lecturer, M.A., Kent State University, 1991
• Salus, O. Carol (1984), Associate Professor, Ph.D., The Ohio State University, 1989
• Schatz, Mark K. (2010), Assistant Professor, M.F.A., University of Texas-Austin, 2005
• Scilla, Diane G. (1985), Professor, Ph.D., Case Western Reserve University, 1975
• Vande Zande, Robin S. (2001), Associate Professor, Ph.D, University of Wisconsin-Milwaukee, 2002
• Warner, John-Michael H. (2015), Assistant Professor, Ph.D., University of Arizona, 2015
School of Biomedical Sciences Faculty

- Dorff, Peter G. (1990), Associate Professor, M.B.A., University of Akron, 1982

School of Communication Studies Faculty

- Bacue, Aaron E. (2015), Assistant Professor, M.A., University of Delaware, 1999
- Beam, Michael A. (2014), Assistant Professor, Ph.D., The Ohio State University, 2012
- Bentley, Laurie S. (1994), Associate Lecturer, M.A., Kent State University, 1996
- Bihn-Coss, Ginger F. (2014), Assistant Professor, Ph.D., Bowling Green State University, 2003
- Cai, Bei (2002), Associate Professor
- Child, Jeffrey T. (2007), Associate Professor, Ph.D., North Dakota State University, 2007
- D’Enbeau, Suzy M. (2013), Assistant Professor, Ph.D., Purdue University, 2009
- Duncan, Rozell R. (1989), Associate Professor, Ph.D., Kent State University, 1996
- Egbert-Scheibelhofer, Nichole L. (2000), Professor, Ph.D., University of Georgia, 2000
- Goodall, Catherine E. (2009), Associate Professor, Ph.D., The Ohio State University, 2009
- Graham, Elizabeth E. (2016), Professor and School Director, Ph.D., Kent State University, 1987
- Haridakis, Paul M. (1996), Professor, Ph.D., Kent State University, 2000
- Hollenbaugh, Erin E. (2003), Associate Professor, Ph.D., Kent State University, 2008
- Kim, Jihyun (2014), Assistant Professor, Ph.D., University of Wisconsin-Milwaukee, 2012
- Lin, Mei-Chen (2003), Associate Professor, Ph.D., University of Kansas, 2003
- McCullough, Jennifer L. (2010), Assistant Professor, Ph.D., The Ohio State University, 2007
- Meyer, Janet R. (1998), Associate Professor, Ph.D., University of Michigan, 1989
- Ponder, James D. (2007), Assistant Professor, Ph.D., Kent State University, 2012
- Sharma, Rekha (2000), Assistant Professor, M.A., Kent State University, 2004
- Trebing, James D. (1990), Associate Professor, Ph.D., Kent State University, 1990
- Waite, Lisa A. (1991), Senior Lecturer, M.A., University of Akron, 1985

School of Fashion Design and Merchandising Faculty

- Arnett, Joanne M. (2011), Lecturer, M.F.A., Kent State University, 2013
- Benitez, Margarita (2010), Assistant Professor, M.F.A., School of Art Institute of Chicago, 2008
- Bharduri, Gargi (2014), Assistant Professor, Ph.D., University of Missouri-Columbia, 2014
- Campbell, James R. (2009), Professor and School Director, Ph.D., University of California-Davis, 1996
- Chen, Chanjuan (2015), Assistant Professor
- Dancie, Paula K. (2003), Associate Lecturer, B.F.A., Miami University, 1980
- Ellington, Tameka N. (1995), Assistant Professor, M.A., Michigan State University, 2004
- Grieder, Trista L. (2010), Lecturer, M.S., Kaplan University, 2009
- Hahn, Kim H. (2011), Associate Professor, Ph.D., University of Nebraska-Lincoln, 2005
- Hume, Sara E. (2009), Associate Professor and Museum Curator, M.A., Fashion Institute of Technology, 2013
- Hwang, Ja Young (2015), Assistant Professor, Ph.D., Iowa State University, 2013
- Hyun, Jonghan (2010), Assistant Professor, M.S., University of Missouri-Columbia, 2007
- Kim, Jihyun (2013), Associate Professor, Ph.D., Iowa State University, 2004
- LaPolla, Kendra L. (2013), Assistant Professor, M.F.A., The Ohio State University, 2010
- Leslie, Catherine A. (2002), Associate Professor, Ph.D., The Ohio State University, 2002
- McLeod, Harriet J. (2011), Assistant Professor, Ph.D., Iowa State University, 2003
- Mehta, Archana (2001), Lecturer, B.A., Kent State University, 2002
- Ohm, Linda M. (2004), Associate Professor, M.F.A., University of North Texas, 2003
- Palomo-Lovinski, Noel N. (2001), Associate Professor, M.F.A., Kent State University, 2009
- Perrine, William C. (2006), Associate Lecturer, M.A., Western Michigan University, 2004
- Quevedo, Vincent (2008), Associate Professor, M.A., University of Nebraska-Lincoln, 2004
- Rhodes, Barbara A. (2009), Associate Lecturer, B.F.A., University of Denver, 1968
- Snyder, Sara E. (2008), Assistant Professor, M.F.A., Kent State University, 2014
- Stanforth, Nancy F. (2000), Associate Professor, Ph.D., The Ohio State University, 1993
- Wachowiak, Marjorie (2012), Lecturer, M.S., Franklin University, 2011
- Yoder, Sue J. (2013), Assistant Professor, M.F.A., Syracuse University, 2008
- Young, Kim (2011), Lecturer and Director of New York City Studio, M.A., Columbia College Chicago, 2007

School of Foundations, Leadership and Administration Faculty

- Boske, Christa A. (2008), Associate Professor, Ed.D., Northern Illinois University, 2006
- Chuang, Ning Kuang (2005), Associate Professor, Ph.D., Texas Tech University, 2006
- Clark, Debra L. (1995), Associate Professor, Ph.D., Kent State University, 2003
- Damrow, Amy (2014), Assistant Professor, Ph.D., Michigan State University, 2011
- Dees, David M. (1991), Ph.D., Associate Professor, Kent State University, 2000
• Devine, Mary Ann (1997), Professor, Ed.D., University of Georgia, 1997
• Donnelly, Michele K. (2015), Assistant Professor
• Donnelly, Michelle K. (2015), Assistant Professor
• Eckert, Erica L. (2005), Assistant Professor and College Assistant Dean, Ph.D., Kent State University, 2012
• Eckert, Erica L. (1998), Assistant Professor and College Assistant Dean, Ph.D., Kent State University, 2012
• Gonzalez, Gloria L. (1998), Assistant Professor, Ph.D., University of Iowa, 1994
• Gornik, Rosemary (2003), Assistant Professor, Ph.D., Kent State University, 2003
• Hoegler, Edward M. (2008), Associate Lecturer, M.S., Johnson & Wales University-Charlotte, 1994
• Israeli, Aviad A. (2012), Associate Professor, Ph.D., Kent State University, 1997
• Jindra-Parman, Jane M. (1990), Lecturer, M.A., Central Michigan University, 1986
• Karpinski, Aryn C. (2010), Assistant Professor, Ph.D., The Ohio State University, 2010
• Kretovics, Mark A. (2001), Associate Professor and Interim College Dean, Ph.D., Colorado State University, 1998
• Kretovics, Mark A. (2001), Associate Professor and College Interim Dean, Ph.D., Colorado State University, 1998
• Lara Hilton, Tracy M. (2008), Associate Professor, Ph.D., Idaho State University, 2004
• Lara Hilton, Tracy M. (2008), Assistant Professor, Ph.D., Idaho State University, 2004
• Lee, Seon Jeong (2014), Assistant Professor, Ph.D., University of Massachusetts-Amherst, 2014
• Lepp, Andrew P. (2004), Associate Professor, Ph.D., University of Florida, 2004
• Levinson, Natasha (1997), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 2001
• Li, Jian (2015), Assistant Professor, Ph.D., The Ohio State University, 2012
• Lyberger, Mark R. (1996), Associate Professor, Ph.D., The Ohio State University, 1996
• Merrill, Martha C. (2008), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1982
• Mulrooney, Aaron L. (1992), Associate Professor, J.D., University of Akron, 1990
• Niesz-Kutsch, Tricia (2004), Associate Professor, Ph.D., University of Pennsylvania, 2003
• Parr, Mary G. (1992), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1992
• Parr, Mary G. (1992), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1992
• Ravichandran, Swathi (2002), Associate Professor, M.B.A., Iowa State University, 2002
• Ravichandran, Swathi (2005), Associate Professor, M.B.A., Iowa State University, 2002
• Schenker, Jason D. (2000), Associate Professor, Ph.D., Kent State University, 2007
• Schenker, Jason D. (2000), Associate Professor, Ph.D., Kansas State University, 2007
• Scheule, Barbara A. (1997), Associate Professor, Ph.D., Kansas State University, 1995
• Scheule, Barbara M. (1997), Associate Professor, Ph.D., Kansas State University, 1995
• Schimmel, Kimberly S. (1995), Professor and School Director, Ph.D., University of North Carolina-Greensboro, 1994
• Seeberg, Vilma (1989), Associate Professor
• Siler, Greta Y. (2004), Lecturer, M.S., Kent State University, 2007
• Thomas, Stephen B. (1985), Professor, Ed.D., University of Florida, 1974
• Ulicney, Mandy L. (2010), Lecturer, M.S., Kent State University, 2011
• Walton-Fisette, Theresa A. (2003), Associate Professor, Ph.D., University of Iowa, 2002
• Wang, Philip C. (1990), Associate Professor, Ph.D., Pennsylvania State University, 1991
• Yim, Hyong Il (2015), Assistant Professor, Ph.D., University of Georgia, 2015

School of Health Sciences Faculty

• Arnold, Hayley S. (2010), Assistant Professor, Ph.D., Vanderbilt University, 2007
• Audet, Lisa R. (1995), Assistant Professor, Ph.D., Kent State University, 2000
• Axiotis, Irene R. (1985), Associate Professor, Ph.D., Kent State University, 1996
• Backus, Angela S. (2003), Assistant Professor, Ph.D., Kent State University, 2010
• Barkley, Jacob E. (2006), Associate Professor, Ph.D., State University of New York-Buffalo, 2007
• Berk, Lynn V. (2008), Associate Lecturer, M.A., Cleveland State University, 1981
• Bernert, Donna J. (2007), Assistant Professor, Ph.D., Southern Illinois University, 2005
• Blakely-Adams, Carmen M. (2007), Lecturer, M.Ed., Cleveland State University, 2004
• Burke, Amanda J. (2000), Assistant Professor, Ph.D., Kent State University, 2015
• Burzminski, Nancy H. (2001), Associate Professor, Ph.D., Saint Mary's University, 2003
• Caine-Bish, Natalie L. (1997), Associate Professor, Ed.D., Kent State University, 2002
• Chinn, Lisa (2012), Assistant Professor, Ph.D., University of Virginia, 2012
• Ding, Kele (2005), Associate Professor, Ph.D., Indiana University-Bloomington, 2000
• Falcone, Tanya R. (2007), Lecturer, M.S., Kent State University, 2009
• Forbes, Myrna A. (1998), Associate Lecturer, Au.D., University of Florida, 2005
• Glickman, Ellen L. (1995), Professor, Ph.D., University of Pittsburgh, 1988
• Gordon, Karen R. (1988), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1988
• Grogan-Johnson, Susan L. (1988), Associate Professor, Ph.D., Kent State University, 1993
Ha, Eun-Jeong (2004), Associate Professor, Ph.D., The Ohio State University, 1999

Hale, Catherine C. (2000), Associate Lecturer, M.S., Indiana University-Bloomington, 1995

Hawks, John W. (1991), Associate Professor, Ph.D., Washington University in St. Louis, 1990

Huston, Jeffrey L. (2007), Associate Lecturer

Huyck, Julia J. (2013), Assistant Professor, Ph.D., Northwestern University, 2010

Jonas, Jay C. (2006), Senior Lecturer, M.Ed., University of Virginia, 1998

Kerr, Dianne L. (1988), Professor, Ph.D., The Ohio State University, 1992

Kingsley, James D. (2013), Assistant Professor, Ph.D., Florida State University, 2009

Krumm, Mark P. (2005), Associate Professor, Ph.D., Wichita State University, 1990

Malone, Megan (2012), Lecturer, M.A., Case Western Reserve University, 2000

Matthews, Jamie C. (2014), Lecturer, M.S., Kent State University, 2004

McDaniel, John (2011), Assistant Professor, Ph.D., University of Utah, 2009

Miracle, Amy L. (2012), Assistant Professor, Ph.D., University of Nevada-Las Vegas, 2013

Mitchell, Pamela R. (1993), Associate Professor, Ph.D., University of Wisconsin-Madison, 1988

O’Flannigan, Cara M. (2016), Lecturer, M.A., Case Western Reserve University, 2007

Peer, Kimberly S. (1999), Associate Professor, Ed.D., University of Akron, 2001

Reed, Ashley (2009), Associate Lecturer, M.S., University of Kentucky, 2009

Ridgel, Angela L. (2008), Associate Professor, Sc.D., Marshall University, 2000

Roche, Jennifer M. (2014), Assistant Professor, Ph.D., University of Memphis, 2011

Rowan, Lynne E. (1994), Associate Professor and School Director, Ph.D., Purdue University, 1982

Schmidt, Anna M. (1994), Associate Professor, Ph.D., University of Florida, 1988

Sharp, David E. (2015), Assistant Professor, Ph.D., Cornell University, 2015

Tribuzi, Scot B. (2006), Senior Lecturer, Ph.D., Kent State University, 2015

Vaughn, Amy L. (2012), Lecturer, M.A., Case Western Reserve University, 1995

Visker, Jennifer N. (2016), Lecturer, M.A., Case Western Reserve University, 2001

Wagner, Laurie M. (1997), Assistant Professor, Ph.D., Kent State University, 2008

School of Library and Information Science Faculty


Bailey, Evan B. (2003), Assistant Professor, M.A., Kent State University, 2009

Boon, Belinda (2006), Assistant Professor, Ph.D., University of Texas-Austin, 2006

Gibbons, Leisa (2015), Assistant Professor, Ph.D., Monash University, 2010

Gracy, Karen (2007), Associate Professor, Ph.D., University of California-Los Angeles, 2001

Hajibayova, Lala (2014), Assistant Professor, Ph.D., Indiana University-Bloomington, 2014

Harper, Sarah M. (2001), Associate Professor, Ph.D., Kent State University, 2003
<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Degree</th>
<th>Institution</th>
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</tr>
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<tr>
<td>Hudak, Christine A.</td>
<td>Professor, Ph.D.</td>
<td>Cleveland State University</td>
<td>1998</td>
<td></td>
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<tr>
<td>Khazraee Afzali, Seyed Emad Adin</td>
<td>(2015)</td>
<td>Assistant Professor</td>
<td></td>
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<tr>
<td>Latham, Kiersten F.</td>
<td>Assistant Professor, Ph.D.</td>
<td>Emporia State University</td>
<td>2009</td>
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<td>Lensenmayer, Nancy F.</td>
<td>Lecturer, A.M.L.S.</td>
<td>University of Michigan</td>
<td>1972</td>
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<tr>
<td>Martens, Marianne</td>
<td>Assistant Professor, Ph.D.</td>
<td>Rutgers, The State University of New Jersey</td>
<td>2012</td>
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<td>Matteson, Miriam L.</td>
<td>Associate Professor, Ph.D.</td>
<td>University of Maryland</td>
<td>2009</td>
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<td>Meehan, Rebecca A.</td>
<td>Assistant Professor, Ph.D.</td>
<td>Case Western Reserve University</td>
<td>1997</td>
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<td>Nichols, Mary A.</td>
<td>Senior Lecturer, M.L.S.</td>
<td>Kent State University</td>
<td>1993</td>
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<td>Robins, David B.</td>
<td>Associate Professor, Ph.D.</td>
<td>University of North Texas</td>
<td>1998</td>
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<td>Salaba, Athena (1993)</td>
<td>Associate Professor, Ph.D.</td>
<td>University of Wisconsin-Madison</td>
<td>2005</td>
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<td>Sherman, Paul J.</td>
<td>Assistant Professor, Ph.D.</td>
<td>University of Texas-Austin</td>
<td>1997</td>
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<td>Smith, Catherine L.</td>
<td>Assistant Professor, Ph.D.</td>
<td>Rutgers, The State University of New Jersey</td>
<td>2010</td>
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<td>Zeng, Marcia L.</td>
<td>Professor, Ph.D.</td>
<td>University of Pittsburgh</td>
<td>1992</td>
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<td>Zhang, Yin (1999)</td>
<td>Professor, Ph.D.</td>
<td>University of Illinois-Chicago</td>
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<td><strong>School of Lifespan Development and Educational Sciences Faculty</strong></td>
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<td>Albrighton, Kizzy</td>
<td>Assistant Professor, Ph.D.</td>
<td>Georgia State University</td>
<td>2014</td>
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<tr>
<td>Alexander, Donna C.</td>
<td>Lecturer, B.A.</td>
<td>Kent State University</td>
<td>1992</td>
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<td>Anhalt, Karla</td>
<td>Associate Professor, Ph.D.</td>
<td>West Virginia University</td>
<td>2000</td>
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<td>Balan, Christine M.</td>
<td>Professor, Ph.D.</td>
<td>Kent State University</td>
<td>1994</td>
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<td>Barber, Brian R.</td>
<td>Assistant Professor, Ph.D.</td>
<td>Kent State University</td>
<td>2014</td>
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<td>Bedesem, Pena L.</td>
<td>Assistant Professor, Ph.D.</td>
<td>University of Central Florida</td>
<td>2010</td>
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<td>Bergh, Kathleen A.</td>
<td>Associate Lecturer, M.Ed.</td>
<td>University of Akron</td>
<td>1985</td>
<td></td>
</tr>
<tr>
<td>Blankemeyer, Maureen S.</td>
<td>Associate Professor, Ph.D.</td>
<td>Oklahoma State University</td>
<td>1996</td>
<td></td>
</tr>
<tr>
<td>Burgess, Sloan R.</td>
<td>Associate Professor, Ph.D.</td>
<td>Case Western Reserve University</td>
<td>2007</td>
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<tr>
<td>Byrd, Janice (2016)</td>
<td>Assistant Professor, Ph.D.</td>
<td>The University of Iowa</td>
<td>2016</td>
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<tr>
<td>Chen, Ching-I (2014)</td>
<td>Assistant Professor</td>
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<tr>
<td>Cichy, Kelly E.</td>
<td>Associate Professor, Ph.D.</td>
<td>Pennsylvania State University</td>
<td>2007</td>
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<tr>
<td>Cimera, Robert E.</td>
<td>Professor, Ph.D.</td>
<td>University of Illinois-Urbana-Champaign</td>
<td>1998</td>
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<tr>
<td>Cowan, Richard J.</td>
<td>Associate Professor, Ph.D.</td>
<td>University of Nebraska</td>
<td>2003</td>
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<tr>
<td>Cox, Jane A. (2007)</td>
<td>Associate Professor, Ph.D.</td>
<td>Kent State University</td>
<td>1997</td>
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<tr>
<td>Cureton, Jenny (2016)</td>
<td>Assistant Professor, Ph.D.</td>
<td>University of Northern Colorado</td>
<td>2016</td>
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<tr>
<td>Hallaman, Lisa M.</td>
<td>Associate Lecturer, M.A.</td>
<td>Kent State University</td>
<td>1996</td>
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<tr>
<td>Harjusola-Webb, Sanna M.(2006)</td>
<td>Associate Professor, Ph.D.</td>
<td>University of Kansas</td>
<td>2006</td>
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<tr>
<td>Hines, Laura A. (2000)</td>
<td>Assistant Professor, Ph.D.</td>
<td>Indiana University-Bloomington</td>
<td>2000</td>
<td></td>
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<tr>
<td>Ingram, Albert L.</td>
<td>Associate Professor, Ph.D.</td>
<td>Arizona State University</td>
<td>1984</td>
<td></td>
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<tr>
<td>Jencius, Martin J.</td>
<td>Associate Professor, Ph.D.</td>
<td>University of South Carolina</td>
<td>1996</td>
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<tr>
<td>Kenyon, Cynthia (2009)</td>
<td>Lecturer, M.Ed.</td>
<td>Kent State University</td>
<td>2010</td>
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<tr>
<td>Kritzer, Karen (2007)</td>
<td>Associate Professor, Ph.D.</td>
<td>University of Pittsburgh</td>
<td>2007</td>
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<tr>
<td>Kuo, Chia-Ling (2005)</td>
<td>Associate Professor, Ph.D.</td>
<td>Ohio University</td>
<td>2005</td>
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<tr>
<td>Liou, Chih-Ling (2014)</td>
<td>Assistant Professor, Ph.D.</td>
<td>Virginia Polytechnic Institute and State University</td>
<td>2011</td>
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<tr>
<td>Luft, Pamela J.</td>
<td>Associate Professor, Ph.D.</td>
<td>University of Illinois-Urbana-Champaign</td>
<td>1995</td>
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<tr>
<td>McCartney, Jamie L.</td>
<td>Assistant Professor, Ph.D.</td>
<td>University of Akron</td>
<td>2004</td>
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<tr>
<td>McGlothlin, Jason M.</td>
<td>Associate Professor, Ph.D.</td>
<td>Ohio University</td>
<td>2001</td>
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<tr>
<td>McLoughlin, Caven S.</td>
<td>Professor, Ph.D.</td>
<td>University of Utah</td>
<td>1981</td>
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<tr>
<td>Miller, Jennifer (2016)</td>
<td>Lecturer, M.Ed.</td>
<td>Kent State University</td>
<td>2016</td>
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<tr>
<td>Morris, Bradley J.</td>
<td>Associate Professor, Ph.D.</td>
<td>The Ohio State University</td>
<td>1998</td>
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<tr>
<td>Morrison, Anne B.</td>
<td>Professor, Ph.D.</td>
<td>Kent State University</td>
<td>2001</td>
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<tr>
<td>Morsefield, Rebecca H.</td>
<td>Associate Lecturer, M.Ed.</td>
<td>Kent State University</td>
<td>1997</td>
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<tr>
<td>Mupinga, Emily E.</td>
<td>Lecturer, M.S.</td>
<td>Louisiana State University-Baton Rouge</td>
<td>1999</td>
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<tr>
<td>Novak, Elena (2015)</td>
<td>Assistant Professor, Ph.D.</td>
<td>Florida State University</td>
<td>2012</td>
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<tr>
<td>Osborn, Cynthia J.</td>
<td>Professor, Ph.D.</td>
<td>Ohio University</td>
<td>1996</td>
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<tr>
<td>Page, Betsy J.</td>
<td>Associate Professor, Ed.D.</td>
<td>University of Maine</td>
<td>1996</td>
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<tr>
<td>Pieper, Alicia (1969)</td>
<td>Assistant Professor, M.A.</td>
<td>Kent State University</td>
<td>1968</td>
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<tr>
<td>Rainey, John S.</td>
<td>Assistant Professor, Ph.D.</td>
<td>Texas A&amp;M University</td>
<td>2001</td>
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</tr>
</tbody>
</table>
School of Music Faculty

- Richardson, Rhonda A. (1984), Professor, Ph.D., Pennsylvania State University, 1984
- Rumrill, Phillip D. (1996), Professor, Ph.D., University of Arkansas, 1983
- Sansosti, Frank J. (2006), Associate Professor, Ph.D., University of South Florida, 2005
- Smith, Gregory C. (2001), Professor, Ph.D., University of Rochester, 1983
- Stevenson, Nathan (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- Storlie, Cassandra A. (2013), Assistant Professor, Ph.D., University of Iowa, 2013
- Tankersley, Melody J. (1993), Professor and Senior Associate Provost, Ph.D., University of Virginia, 1992
- Tobias, Scott A. (2009), Assistant Professor, D.Sci., University of Missouri, 2009
- Toepfer, Steven M. (2004), Assistant Professor, Ph.D., The Ohio State University, 2001
- Walker, Kathleen K. (2002), Associate Professor, Ph.D., Kansas State University, 2002
- Wiley, Andrew L. (2008), Associate Professor, Ed.D., University of Virginia, 2008
- Wisdom, Sonya L. (2012), Assistant Professor, Ph.D., Kent State University, 2010

School of Music Faculty

- Albrecht, Theodore J. (1992), Professor, Ph.D., University of North Texas, 1975
- Anderson, Ian (2015), Assistant Professor, M.F.A., Middle Tennessee State University, 2009
- Berg, Marla (2009), Assistant Professor
- Birch, Sebastian A. (2006), Associate Professor, Ph.D., Cleveland Institute of Music, 1997
- Brown, Dana A. (1984), Associate Professor, M.M., Kent State University, 1986
- Chunn, Michael W. (1983), Professor
- Culver, Timothy M. (1999), Associate Professor, M.M., Kent State University, 2002
- Devore, Richard O. (1983), Associate Professor, Ph.D., University of Iowa, 1985
- Dressler, Jane K. (1987), Professor, Ph.D., University of North Carolina-Greensboro, 1989
- Fowler, Krishna (2015), M.M., Assistant Professor, Juilliard School of Music, 1995
- Franklin, John D. (2013), Assistant Professor, Ph.D., Indiana University-Bloomington, 2007
- Fucci, Melissa D. (2002), M.M., Assistant Professor, Kent State University, 2009
- Johnstone, Jennifer L. (2002), Assistant Professor, Ph.D., Kent State University, 2012
- Larmee, Kent D. (1989), Associate Professor, M.M., The Ohio State University, 1981
- Latshaw, Charles W. (2013), Assistant Professor, Ph.D., Indiana University-Bloomington, 2014
- Lee, Donna (1999), Professor, Ph.D., Johns Hopkins University, 1999
- Leyva, Jesse (2013), Associate Professor
- Lorenz, Ralph (1997), Associate Professor, M.A., California State University-Long Beach, 1984
- MacPherson, Scott A. (2008), Professor, D.M.A., University of Southern California, 1992
- McCloskey, Diane L. (1991), Associate Professor, M.M., University of Cincinnati, 1983
- McPherson, Eve (2011), Assistant Professor, Ph.D., University of California-Santa Barbara, 2009
- Mitchell, David E. (2001), Assistant Professor
- Mukuna, Kazadi W. (1989), Professor
- Nanongkham, Priwan (1998), Assistant Professor, Ph.D., Kent State University, 2011
- Resta, Craig M. (2008), Associate Professor, Ph.D., University of Maryland-University College, 2008
- Robinson, Cathy M. (2003), Assistant Professor
- Robinson, Keith H. (2003), Assistant Professor
- Rounds, Theodore P. (1995), Associate Professor, B.M., University of Rochester, 1978
- Seachrist, Denise A. (1988), Professor and Campus Dean, Ph.D., Kent State University, 1993
- Seeds, Laurel M. (2000), Associate Professor, M.M., Kent State University, 1986
- Selvaggio, Robert (2010), Assistant Professor, B.M., Kent State University, 1992
- Shahriari, Andrew C. (1993), Associate Professor, M.M., Kent State University, 2001
- Sundet, Danna S. (2002), Assistant Professor, M.M., Kent State University, 2002
- Venesile, Christopher J. (2010), Assistant Professor
- Walker, Linda B. (1990), Professor, Ph.D., University of Kansas, 1983
- White, Jay G. (2011), Associate Professor
- Wong, Jerry T. (2003), Associate Professor, Ph.D., Manhattan School of Music, 2002

School of Peace and Conflict Studies Faculty

- Bleak, Jaqelyn K., Lecturer, M.S., George Mason University, 2012
- Coy, Patrick G. (1996), Professor, Ph.D., Syracuse University, 1997
- Cunningham, Karen D. (1990), Associate Professor, J.D., Washington and Lee University, 1986
- Hancock, Landon E. (2006), Associate Professor, Ph.D., George Mason University, 2003
- Koopman, Sara, Assistant Professor
- Repicky, Theresa (2002), Assistant Professor, Ph.D., Nova Southeastern University, 2006
- Solomon, Johanna, Assistant Professor

School of Teaching, Learning and Curriculum Faculty

- Bedrosian, Wendlyn K. (1998), Assistant Professor, Ph.D., Kent State University, 2004
- Bintz, William P. (2004), Professor
- Borkerdinger, Lisa (2007), Associate Professor, Ph.D., Indiana University-Bloomington, 2007
- Caniglia, Joanne C. (2008), Associate Professor, Ph.D., Kent State University, 1994
• Courtney, Scott A. (2010), Assistant Professor, Ph.D., Arizona State University, 2010
• Crowe, Alicia R. (2001), Professor, Ph.D., Vanderbilt University, 2001
• Dever, Robin (2007), Ph.D., Assistant Professor, Kent State University, 2008
• Dowdy, Joanne K. (2001), Professor, Ph.D., University of North Carolina-Chapel Hill, 1997
• Froehlich, Larry G. (2002), Associate Professor, Ed.D., West Virginia University, 1984
• Gershon, Walter S. (2006), Associate Professor, Ph.D., University of California-Riverside, 2007
• Gorecki, Jennifer J. (2011), Assistant Professor, Og.D., University of South Carolina, 2000
• Gruhler, Danielle M. (1999), Associate Professor, Ph.D., Kent State University, 2004
• Hawley, Todd (2008), Associate Professor, Ph.D., University of Georgia, 2008
• Henderson, James G. (1990), Professor, Ed.D., Stanford University, 1980
• Heron, Michele L. (2004), Assistant Professor, Ph.D., Kent State University, 2010
• Hollstein, Matthew S. (2015), Assistant Professor, Ph.D., Ohio University, 2015
• Hostler, Rochelle (2008), Lecturer, B.S.E., Kent State University, 2000
• Hutchins, Pamela K. (1993), Lecturer, M.Ed., Kent State University, 1992
• Irving, Sonya E. (2013), Assistant Professor, Ph.D., University of Illinois-Urbana-Champaign, 2014
• Kenyon, Elizabeth (2015), Assistant Professor, Ph.D., Michigan State University, 2015
• Kidder, Melanie K. (1995), Associate Lecturer, M.A., California State University-San Marcos, 2004
• Kim, Insook (2012), Assistant Professor, Ph.D., The Ohio State University, 2011
• Kist, William (1992), Professor, Ph.D., Kent State University, 1999
• Knapp, Kathryn A. (2007), Assistant Professor, Ph.D., Kent State University, 2013
• Kosko, Karl W. (2012), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2010
• Kroeger, Janice (2002), Associate Professor, M.S., Eastern Illinois University, 1990
• Lash, Martha J. (2003), Associate Professor, M.S., Indiana University-Bloomington, 2004
• Miller-Marsh, Monica A. (2012), Associate Professor, Ph.D., University of Wisconsin-Madison, 1997
• Mitchell, Stephen A. (1992), Associate Professor, Ph.D., Syracuse University, 1992
• Monobe, Gumiko (2010), Assistant Professor
• Morgan, Denise N. (2004), Associate Professor
• Mulvey, Bridget K. (2012), Assistant Professor, Ph.D., University of Virginia, 2012
• Mupinga, Davison M. (2008), Associate Professor, Ph.D., Louisiana State University-Baton Rouge, 1999
• Myers, Casey Y. (2009), Assistant Professor, Ph.D., Kent State University, 2015
• Nurnberger-Haag, Julie (2015), Assistant Professor, Ph.D., Michigan State University, 2015
• O'Connor, Patrick J. (1988), Associate Professor, Ed.D., Virginia Polytechnic Institute and State University, 1982
• Pytash, Kristine E. (2006), Assistant Professor, Ph.D., Kent State University, 2009
• Rasinski, Timothy V. (1988), Professor, Ph.D., The Ohio State University, 1985
• Raven, Sara P. (2013), Assistant Professor, Ph.D., University of Georgia, 2013
• Sandmann, Alexa L. (2004), Professor and School Director, Ed.D., University of Cincinnati, 1990
• Sato, Takahiro (2010), Associate Professor
• Stoll, Julia A. (2000), Associate Professor, Ph.D., Kent State University, 2015
• Testa, Elizabeth A. (2013), Associate Professor, Ph.D., University of Akron, 2014
• Turner, Steven L. (2005), Associate Professor, Ph.D., University of Virginia, 2005
• Walton-Fisette, Jennifer L. (2008), Associate Professor, Ed.D., University of Massachusetts-Amherst, 2008
• Wilfong, Lori G. (2002), Associate Professor, Ph.D., Kent State University, 2006
• Zimmerman, Belinda S. (1992), Associate Professor, Ph.D., Kent State University, 2003

School of Theatre and Dance Faculty

• Auld, William I. (2010), Assistant Professor, M.F.A., Northern Illinois University, 2005
• Bauer, Kerry J. (2014), Assistant Professor, M.F.A., Ohio University, 1995
• Black, Maryann P. (2002), Assistant Professor, M.F.A., Kent State University, 2007
• Brown, Courtney (2014), Assistant Professor, M.F.A., University of Southern Mississippi, 2008
• Campbell, Sharon S. (1989), Associate Professor, M.F.A., The Ohio State University, 1982
• Crawford-Spinelli, John R. (1988), Professor and College Dean, Ed.D., Temple University, 1989
• Drashner, Nicholas D. (2015), Assistant Professor, M.F.A., University of California-San Diego, 2012
• Fritsche, Amy (2013), Assistant Professor, M.F.A., San Diego State University, 2010
• Huya, Natalie J. (2003), Assistant Professor, M.A., Villanova University, 2001
• Karpanty, Kimberly A. (1995), Associate Professor, M.F.A., Arizona State University, 2003
• Kent, Therese J. (1991), Professor, M.F.A., Michigan State University, 1987
• Kidow, Eric S. (2015), Assistant Professor, M.F.A., Savannah College of Art and Design, 2009
• Korecki, Jennifer S. (2012), Assistant Professor, M.M., Kent State University, 1996
• Kurahashi, Yuko (2001), Associate Professor, Ph.D., Indiana University-Bloomington, 1996
• Meggit, Joan (2005), Assistant Professor, M.F.A., Case Western Reserve University, 1999
School of Visual Communication Design Faculty

- Nadon, Daniel R. (1993), Professor, Ph.D., University of Colorado-Boulder, 1993
- Newberg, Brian S. (2010), Assistant Professor, M.F.A., University of California-Irvine, 1999
- Pauna, Steven R. (2013), Associate Professor, M.F.A., Kent State University, 2000
- Polanco, Fabio J. (2009), Associate Professor, M.F.A., Case Western Reserve University, 1997
- Rockland, Jeffrey M. (2015), Associate Professor, M.F.A., University of California-Irvine, 1992
- Seo, Jaeryung (2009), Associate Professor, M.F.A., University of Illinois-Urbana-Champaign, 2004
- Seo, Jaeryung (2009), Associate Professor, M.F.A., University of Illinois-Urbana-Champaign, 2004
- Stillings, Cynthia R. (1992), Professor, M.F.A., University of Wisconsin-Madison, 1988
- Swoboda, Jonathan F. (2008), Associate Professor, M.M., University of Nebraska-Omaha, 1997
- Van Baars, Frans E. (1993), Associate Professor, M.F.A., Kent State University, 2002
- Verleza, Barbara A. (2002), Associate Professor, M.F.A., Northern Illinois University, 2005

School of Visual Communication Design Faculty

- Barness, Jessica S. (2012), Assistant Professor, M.F.A., University of Minnesota-Twin Cities, 2012
- Bell, Timothy (2015), Assistant Professor, M.Arch., Columbia University, 2012
- Coorey, Jillian S. (2010), Assistant Professor, M.F.A., University of Illinois-Chicago, 2010
- Darling, Christopher C. (2014), Assistant Professor, M.F.A., School of Visual Arts, 2010
- Inderhees, Joan E. (1982), Associate Lecturer, M.A., Kent State University, 1986
- Katila, Sandra S. (1990), Associate Professor, M.F.A., Kent State University, 1993
- Kennedy, Jaime D. (2007), Associate Professor, M.F.A., The Ohio State University, 2006
- King, Larric L. (2012), Assistant Professor, M.F.A., Kent State University, 2014
- Middleton, David A. (1998), Professor, M.A., Kent State University, 1985
- Mooney, Aoife (2013), Assistant Professor, M.F.A., University of Reading, 2010
- O’Grady, Kenneth J. (1997), Professor, M.F.A., Kent State University, 2000
- Peters, Daphne F. (2014), Assistant Professor, B.Arch., Carnegie Mellon University, 2002
- Ransome, Christopher T. (1996), Associate Professor, M.F.A., University of Delaware, 1993
- Renicker, Valora (1994), Associate Professor, M.F.A., Kent State University, 2001
- Rinnert, Gretchen C. (2008), Associate Professor, M.F.A., North Carolina State University-Raleigh, 2008
- Roll, David (2015), Assistant Professor, M.A., Kent State University, 2007

Accounting Technology (ACTT)

**ACTT 11000 ACCOUNTING I: FINANCIAL**  4 Credit Hours
(Equivalent to ACCT 23020) Introduction to financial accounting, including principles generally accepted in preparation of accounting statements for users outside of the business organization.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ACTT 11001 ACCOUNTING II: MANAGERIAL**  4 Credit Hours
(Equivalent to ACCT 23021) Introduction to managerial accounting, including accounting for manufacturing firms, budgeting, standard cost systems, direct costing, segment reporting and cost-volume-profit-analysis.

**Prerequisite:** ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 4 lecture

**Grade Mode:** Standard Letter

**ACTT 11003 PAYROLL ACCOUNTING**  3 Credit Hours
Introduction to the payroll function, including preparation of payroll and related federal, state and local tax forms required of all businesses. Both manual and computerized applications will be studied.

**Prerequisite:** ACTT 11000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 20012 ACCOUNTING SOFTWARE APPLICATIONS**  3 Credit Hours
An accounting software application course using accounting, spreadsheet and word processing software.

**Prerequisite:** ACTT 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**ACTT 21000 ACCOUNTING III: FINANCIAL**  3 Credit Hours
An intensive and practical study of financial accounting principles pertaining to balance sheet and income statement accounts, and statement analyses.

**Prerequisite:** ACTT 11001.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**ACTT 21001 ACCOUNTING IV:FINANCIAL**  3 Credit Hours
Continuation of ACTT 21000. Also considers income statement accounts and financial statement analyses. Both manual and computerized applications will be studied.

**Prerequisite:** ACTT 21000.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

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

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

ACTT 21095 SPECIAL TOPICS: ACCOUNTING TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Special topics in accounting.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

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

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

ACTT 36110 PRINCIPLES OF FRAUD EXAMINATION 3 Credit Hours
Study of occupational fraud, abuse, detection and prevention within the realm of an enterprise.
Prerequisite: ACTT 11000 and ACTT 11001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACTT 36120 ETHICAL ISSUES RELATING TO FRAUD EXAMINATION 3 Credit Hours
Understanding ethical dilemmas, issues and professionalism relating to fraud examination.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACTT 46170 CASE STUDIES IN FRAUD EXAMINATION 3 Credit Hours
Application of principles of fraud examination, detection and evaluation of recommended action plans to specific fraud cases.
Prerequisite: ACTT 36110 and COMT 36318.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ACTT 46191 SEMINAR IN FRAUD EXAMINATION 3 Credit Hours
(Repeatable for credit) Capstone course for students studying fraud examination and its related areas. Students will be required to research, analyze and present current fraud issues.
Prerequisite: ACTT 46170 and special approval.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

Agribusiness (AGRI)

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

AGRI 30000 FARM BUSINESS MANAGEMENT 3 Credit Hours
Develops an understanding of the various business management decisions involved in the organization and operation of a farm business operation for continuing profit and production cost efficiency. Students acquire knowledge and proficiency in applying the various economic principles and farm business management analysis concepts which aid a farm operator or owner in the decision making process for a farm business operation.
Prerequisite: ACTT 11000 and BMRT 11009 and ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 31000 AGRIBUSINESS MANAGEMENT 3 Credit Hours
Intended for students interested in careers eventually leading to managerial positions in commodity production and marketing, input supply, banking, cooperatives and related agricultural industries. Focus is on the use of financial statements, operating and managerial functions, communication, and the inter-personal work environment within an organization. Presentation is by lecture integrated with experiential learning through use of student-team decision making applied to an agribusiness management simulation.
Prerequisite: ACTT 11000 and ACTT 11001 and BMRT 11009 and ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
AGRI 32000 FARM RECORDS ANALYSIS AND INCOME TAX MANAGEMENT 3 Credit Hours
Develop an understanding of the procedures involved with farm recordkeeping and illustrates the ways in which farm records can be used to evaluate and to improve the economic performance and profitability of a farm business. Students have the opportunity to gain an understanding of the current tax system. Students learn to apply the various tax management methods and strategies that can be used to maximize the after tax income to a farm business operation.
Prerequisite: AGRI 30000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 33000 AGRICULTURAL COMMODITY MARKETING 3 Credit Hours
Covers the economic factors, socioeconomic trends, farm demographic changes, global competitiveness, and consumer attitudes that shape the current structure and operation of the U.S. agricultural marketing system. Includes how decisions at one level in the value chain impact all other levels and explores how and when the system changes as a result of individual decisions. Also focuses on quality-based marketing, contracting and providing a global perspective.
Prerequisite: AGRI 20000 and BMRT 11009 and BMRT 21050 and ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 34000 LIVESTOCK PRODUCTION MANAGEMENT 3 Credit Hours
An introduction to the livestock industry and its role in society and our economy. Principles of livestock production management are introduced for beef, swine, dairy cattle, horses, sheep, goats and poultry.
Prerequisite: AGRI 31000; and BSCI 10001 and 10003, or BSCI 10005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 35000 CROP AND FORAGE PRODUCTION MANAGEMENT 3 Credit Hours
Deals with crop plants in relation to the environment, crop improvement, seeds, and seedling. The practice of tillage, fertilizer, rotation, cropping, and weed control is covered. Pastureland and farmland, the harvest of field crops, and the handling and marking of grain seeds and hay are also included, as well as crops of the grass family, perennial forage grasses, the legume family and miscellaneous crops.
Prerequisite: BSCI 10001 and 10003, or BSCI 10005; and AGRI 30000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

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

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

AGRI 41000 AGRICULTURAL PRICE ANALYSIS 3 Credit Hours
The economics of supply and demand provide a foundation for understanding the behavior of agricultural markets, the formation of prices, and the role of prices in the allocation of goods and services. Traditional topics include: price determination, seasonality, market adjustments, marketing margins, short-run and long-run demand, derived demand, hedging with futures markets, marketing strategies, and trade. Graphical and empirical methods, including regression, are used to do price analysis.
Prerequisite: AGRI 20000 and BMRT 21050 and ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 42000 AGRICULTURAL FINANCE 3 Credit Hours
To develop an understanding and proficiency in applying the various economic principles and concepts of financial management for analyzing alternative investment decisions and solving financial problems in a farm business operation. Various strategies for acquiring and financing capital resources in the farm business operation are explored. Characteristics of the financial institutions providing credit to farmers and their particular lending programs are studied.
Prerequisite: AGRI 30000 and ECON 22060 and MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AGRI 43000 AGRICULTURAL ENVIRONMENTAL LAW 3 Credit Hours
To acquaint students with the fundamentals of state and federal pollution control law. Major topics include: air pollution control, water pollution control, toxic substance control, solid waste management and disposal, Superfund, wetlands, endangered species, land use regulation, environmental assessment, environmental law administration and enforcement and global environmental law.
Prerequisite: AGRI 30000 and BMRT 21000 and ECON 22061.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
AGRI 44000 AGRICULTURAL AND INTERNATIONAL TRADE POLICY 3 Credit Hours
History, development, programs, and analysis of public policy issues in agriculture and natural resources. Analysis of science, economic, and political factors involved in policy development. Emphasis on farm policy and farm structure; food and nutrition; trade and development; and natural resources, the environment, and bioenergy, with special attention to issues and policies impacting Ohio and the United States.
Prerequisite: AGRI 20000 and ECON 22061.

Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

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

Allied Health Sciences (AHS)

AHS 11001 PERSONAL TRAINING, WELLNESS AND EXERCISE 3 Credit Hours
Theoretical and practical competencies required of a qualified personal trainer, including exercise, nutrition and wellness concepts that are immediately applicable to improve personal lifestyle decisions. Receive hands on experience in training, instruction and professional skill development. Upon completion students are qualified to sit for the personal trainer certification exam administered by the National Council on Strength and Fitness (NCSF).
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

AHS 12000 BASIC PRINCIPLES OF PHARMACOLOGY 2 Credit Hours
Identify and apply the basic principles of pharmacology to client care. Explore pharmaceutics, pharmacokinetics, pharmacodynamics, pharmacology-related math, drug classification, and safe preparation and administration of medications.
Prerequisite: Nursing technology (NRST), nursing (NURS), physical therapist assistant technology (PTST), occupational therapist assistant technology (OCAT), radiologic technology (RADT) or respiratory therapy technology (RTT) major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

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

AHS 12010 PROFESSIONALISM IN HEALTHCARE 1 Credit Hour
Provides information concerning the professional behaviors and communication skills necessary for all healthcare providers to effectively interact with clients, related healthcare professionals and others. Students will gain an understanding of the importance of being professional, ethical and competent in their fields.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

AHS 14016 PATIENT CARE MANAGEMENT 2 Credit Hours
Ethical and legal aspects, interpersonal communication, history taking, physical assistance and monitoring, medical emergencies, infection control, aseptic and non-aseptic techniques, patient tubes and lines, safe patient movement and handling techniques, immobilization techniques, vital signs, and pharmacology are topics covered. Some activities are done in the lab setting.
Prerequisite: Special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

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

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

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

AHS 24014 ADVANCED IMAGING 2 Credit Hours
The procedures and equipment used in advanced imaging modalities including radiography and fluoroscopy, interventional radiology, computed tomography, magnetic resonance imaging, diagnostic medical sonography, nuclear medicine, PET scanning, mammography and radiation therapy. Also includes overview of billing and coding of these types of procedures. NOTE: Limit five lines; use third person plural; do not include special course fee, grade rule, prerequisite(s) or cross-listed courses.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
AHS 24028  RADIOLOGIC PATHOLOGY  3 Credit Hours
Disease processes and the pathologies associated with each anatomical system in the human body are described and their application to all imaging modalities in the radiologic and imaging sciences. Prerequisites: BSCI 11001 or BSCI 11010 and BSCI 11020 or BSCI 21010 and BSCI 21020 or ATTR 25057 and ATTR 25058 or EXSC 25057 and ATTR 25058,
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

**Business Management Related Tech (BMRT)**

BMRT 11000  INTRODUCTION TO BUSINESS  3 Credit Hours
(Equivalent to BUS 10123) Overview of social, economic and consumer environments as related to large and small business. Emphasis is on production, marketing, finance, management and human resources. It is recommended that any reading courses indicated by COMPASS score are taken prior to enrolling in this course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 11006  BUSINESS COMPUTATIONS I  3 Credit Hours
Application of algebraic and arithmetic concepts to accounting, finance and marketing. Computation of finance charges, taxes, fundamentals of inventory control and depreciation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 11009  INTRODUCTION TO MANAGEMENT TECHNOLOGY  3 Credit Hours
(Equivalent to MIS 24163) Study of planning, organizing, directing/leadership, controlling, staffing, decision making, and communication theories and management applications of human and material resources and methods. It is recommended that any reading courses indicted by COMPASS score are taken prior to enrolling in this course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21000  BUSINESS LAW AND ETHICS I  3 Credit Hours
(Equivalent to FIN 26074) Introduction to American law as related to government, business, society and the ethical issues that occur in the legal environment. Emphasis will focus on contract law. Relevant past and current law issues will be addressed.
Prerequisite: UC 00006 or Compass Reading score of 86; and ENG 01001 or Compass Writing score of 67.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21004  INTRODUCTION TO BUSINESS STATISTICS  3 Credit Hours
(Equivalent to MIS 24056) Basic decision making statistics for business management. Emphasis is on probability theory, statistical inferences and decision making under uncertainty.
Prerequisite: MATH 00023 or MATH 00024 or MATH 11009 or MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21008  CASE STUDIES IN MANAGEMENT TECHNOLOGY  3 Credit Hours
Application of management theory to actual business situations. Emphasis on decision making and evaluation of methods and styles of management in all functional areas.
Prerequisite: BMRT 11000 or BMRT 11009 or MIS 24163 or BUS 10123.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21011  FUNDAMENTALS OF FINANCIAL MANAGEMENT  3 Credit Hours
Understanding basic financial reports for analysis and performance of a business. Preparation of sales forecasts to develop capital and expense budgets.
Prerequisite: ACTT 11000 and COMT 11000 or special approval of BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21020  INTRODUCTION TO ENTREPRENEURSHIP  3 Credit Hours
Provides information about the functional elements of starting a small business. Includes the use of instruments, exercises and case analyses to assess entrepreneurial skills.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

BMRT 21023  FINANCING THE BUSINESS VENTURE  3 Credit Hours
Course deals with determining capital needs, identifying sources of capital, developing a financial plan and interpreting financial statements. Both public and private loan programs will be reviewed.
Prerequisite: BMRT 21020 or special approval of full-time BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21050  FUNDAMENTALS OF MARKETING TECHNOLOGY  3 Credit Hours
(Equivalent to MKTG 25010) An overview of the process, activities, and problems associated with the conception, planning and execution of pricing, promotion, product and placement of goods and services
Prerequisite: ECON 22060.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
BMRT 21051  FUNDAMENTALS OF RETAILING  3 Credit Hours
A survey of retailing that emphasizes skills necessary for store organization, location, layout, pricing, merchandising and inventory control. New retail concepts are stressed.
Prerequisite: BMRT 11000 or special approval of BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21052  PROFESSIONAL SELLING TECHNIQUES  3 Credit Hours
Study of personal selling as a promotional technique to determine and satisfy the needs of buyers and to build a long-term relationship among all parties.
Prerequisite: BMRT 11000 or special approval of full-time BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21053  ADVERTISING IN BUSINESS  3 Credit Hours
A practical approach to the study of advertising. Emphasis is on the effective use of the media creating advertising operations and advertising management.
Prerequisite: BMRT 21050 or special approval of BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 21092  INTERNSHIP IN MANAGEMENT TECHNOLOGY (ELR)  
1-3 Credit Hours
(Repeatable for credit) Students participate in a supervised educational experience. Each credit hour requires a minimum of seven hours work without pay or 10 hours work with pay per week for 15 weeks.
Prerequisite: Special approval of full-time BMRT faculty.
Schedule Type: Practicum or Internship
Contact Hours: 7-21 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

BMRT 21095  SPECIAL TOPICS  1-3 Credit Hours
(Repeatable for credit) Special topics in business technology announced when scheduled.
Prerequisite: special approval from full-time BMRT faculty.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

BMRT 21096  INDIVIDUAL INVESTIGATION IN BUSINESS TECHNOLOGY  
1-3 Credit Hours
(Repeatable for credit) Individual study in business and related fields.
Prerequisite: Business Management Technology (BMRT) major and special approval from full-time BMRT faculty.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

BMRT 31005  PURCHASING AND SUPPLY MANAGEMENT  3 Credit Hours
Investigates the purchasing, planning and logistics functions of supply chain management. Process control, negotiations, quality control, service measurement and other quantitative methods are covered.
Prerequisite: BMRT 11000 or BMRT 11009.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 31006  HUMAN RESOURCE MANAGEMENT  3 Credit Hours
The study of contemporary issues of human resources. Covers planning, job design, selection, appraisal, compensation, training, life quality, safety/health, diversity and unions.
Prerequisite: BMRT 11009 or MIS 24163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 31009  SEMINAR IN MANAGEMENT TECHNOLOGY  3 Credit Hours
Last semester students of business management technology engage in critical reading, writing and discussion to apply business theory to on-the-job experiences.
Prerequisite: BMRT 21008 or special approval of full-time BMRT faculty.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 36401  APPLICATIONS OF TECHNOLOGY MANAGEMENT SOFTWARE  3 Credit Hours
Combination of computer and business applications for managing technology within an organization. Focus is on using emerging computer software programs for the enhancement of decision making. Course is 2 hours lecture, 1 hour lab.
Prerequisite: BMRT 11000 and COMT 12000; or special approval of full-time Applied Business faculty.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

BMRT 36410  SECURITY FOR BUSINESS STUDENTS  3 Credit Hours
Concepts and principles of security and safety in industrial and commercial settings. Focus on executive oversight of corporate security functions. Includes risk analysis, security surveys, emergency preparedness and security policies and procedures.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 36415  CUSTOMER SERVICE  3 Credit Hours
Analysis and definition of customer satisfaction with an emphasis on quality customer service that includes techniques for assessing company service efforts and developing customer satisfaction programs.
Prerequisite: Sophomore standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 36420  PHYSICAL SECURITY  3 Credit Hours
Elements of design, technology and procedures that deter, delay, detect and defeat criminal activity. Deployment and optional countermeasures. Budgeting based on risk analysis.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
BMRT 36430 SECURITY MANAGEMENT 3 Credit Hours
Principles of security and safety in private business and institutions. Emphasis on proprietary departments and security of those departments. Focus on need for proprietary security organization, internal controls, external threats and electronic devices. Examination of departmental policies and procedures.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 36440 SECURITY INVESTIGATION 3 Credit Hours
Addresses future of private security, conducting interviews and dealing with testimonial evidence. Following leads, collecting evidence, preserving crime scenes, use of investigative tools, surveillance techniques and report writing.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 40092 PRACTICUM IN APPLIED BUSINESS AND TECHNOLOGY (ELR) 1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) On sight internship or a project with a business or technology related organization approved by the Instructor.
Prerequisite: Junior standing and special approval.
Schedule Type: Field Experience, Practicum or Internship
Contact Hours: 7-28 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

BMRT 40096 INDIVIDUAL INVESTIGATION IN BUSINESS AND TECHNOLOGY 1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Perform an individual project or research assignment as approved by the instructor.
Prerequisite: Junior standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 7-28 other
Grade Mode: Standard Letter

BMRT 46295 SPECIAL TOPICS IN APPLIED BUSINESS 2-3 Credit Hours
(Repeatable for credit) Specialized advance instruction oriented primarily to applied business topics. Topics will vary and will be announced as scheduled.
Prerequisite: special approval.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter

BMRT 46409 STRATEGIC MANAGEMENT OF TECHNOLOGY AND INNOVATION 3 Credit Hours
An examination using case studies and readings of the management of technology and innovation through perspectives at the product line, business unit and corporate levels.
Prerequisite: BMRT 21050 and BMRT 21011; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 46410 CRISIS AND DISASTER MANAGEMENT PLANNING 3 Credit Hours
Addresses planning process for mitigation and recovery strategies for natural and man-made crisis and disasters. Includes risk assessment, incident management and planning evaluation.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 46418 LABOR STUDIES IN TECHNOLOGY 3 Credit Hours
This course will include the history of the labor movement, interrelationships of labor with business and industry, labor law, contemporary labor problems that emphasizes how unions are organized, contracts, arbitration and management issues.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BMRT 46420 LEGAL ISSUES IN SECURITY 3 Credit Hours
Survey of laws applicable to security risks including torts, labor, employment, criminal and constitutional issues.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Computer Animation Design Technology (CADT)

CADT 12000 2D GRAPHICS TECHNOLOGY 3 Credit Hours
Introductory course for creation of 2D graphics using vector and raster imaging for use in mapping and character development in animation and gaming.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CADT 12001 3D MODELING AND TEXTURING 3 Credit Hours
Introduction to the basic concepts of 3D modeling and animation. Topics will include terminology, techniques of creating textures and imaging for mapping, 3D modeling, lighting, shading and rendering.
Prerequisite: CADT 12000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CADT 21092 ANIMATION AND GAME DESIGN PRACTICUM (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Supervised work experience. One credit hour for 50 work hours.
Prerequisite: none.
Schedule Type: Practicum or Internship
Contact Hours: 3.333-10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement
CADT 22000  ADVANCED CAD  3 Credit Hours
Comprehensive training with 2D and 3D elements of computer-aided-design (CAD) from the foundation to advanced techniques applicable to design in the graphics, mechanical, industrial and electronics fields.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CADT 22001  CAD: ARCHITECTURE  3 Credit Hours
Introduction to building information modeling (BIM) fundamentals using an industry-standard architectural software application, including creation of full 3D architectural project into working drawings.
Prerequisite: MERT 12000 or TECH 13580.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CADT 22002  CAD: CIVIL APPLICATIONS  2 Credit Hours
A course on the use of computer-aided drafting and design for civil engineering applications.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CADT 22003  SOLID MODELING  3 Credit Hours
Instruction given in the best usage approaches for parametric design philosophy through a hands-on, practice-intensive curriculum. Students acquire the knowledge needed to complete the process of designing models from conceptual sketching, through to solid modeling, assembly design and drawing production.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CADT 22004  COMPUTER ANIMATION AND GAMING  3 Credit Hours
3D modeling and computerized techniques. Introduction to the basic concepts, terminology and techniques of 3D modeling, lighting, shading, imaging and animation.
Prerequisite: CADT 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CADT 22005  MULTIMEDIA AND GAME DESIGN  3 Credit Hours
2D and 3D game development which includes the creation of flowcharts, roughs and interactive navigation systems. Integration of images, animation, video, sound and custom code for the app or game for mobile device.
Prerequisite: CADT 12000; and COMT 20001 or COMT 20011 or CS 10051.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CADT 22007  3-D MODELING PROJECT  1 Credit Hour
A guided project course in 3-D modeling for computer animation and game design.
Prerequisite: CADT 22005.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter-IP

CADT 22008  PROJECT IN TEXTURE AND MATERIAL CREATION  1 Credit Hour
A guided project course in texture and material creation for computer animation and game design.
Prerequisite: CADT 22007.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter-IP

CADT 22009  APPLIED ENGINEERING SOFTWARE  3 Credit Hours
A course on the use of the computer as a problem solving tool for applications in engineering and manufacturing. Emphasis is on the use of productivity software training on the use of the software applicable to engineering problems using hands-on workshop formats.
Prerequisite: none.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

CADT 22010  DIGITAL SCULPTING TECHNOLOGY  3 Credit Hours
This course will explore interactive 3D sculpting to create highly-detailed and realistic models for use in games, film, animation and illustration.
Prerequisite: CADT 12000
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

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

Computer Design, Animation Game Design (CDAG)

CDAG 33095  SPECIAL TOPICS IN COMPUTER DESIGN ANIMATION AND GAME DESIGN  1-3 Credit Hours
To be determined based on special course topic presented. Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

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

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

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

CDAG 34004 TECHNOLOGY OF LIGHT, COLOR, DESIGN AND LAYOUT 2 Credit Hours
A course dealing with the study of the technical principles and applications of light, color, design and layout to the production of computer animation for engineering materials and products.
Prerequisite: CADT 22004.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

CDAG 34005 VIRTUAL REALITY AND GAME DESIGN 3 Credit Hours
In this course, we will learn the essentials of game environment creation. We will look at how textures, terrains, foliage, particle effects, lighting and blueprinting work and are created in a computer-aided software. We will also learn to import 3D models in to our game environment.
Prerequisite: CDAG 34000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CDAG 43000 ADVANCED ANIMATION AND GAME DESIGN 3 Credit Hours
This course is the continuation of Virtual Reality and Game Design and a heavily group project based course. We will be covering how to add characters and blueprint scripting aspects in Unreal Engine. Our purpose is to create a playable 3D game in Unreal Engine.
Prerequisite: CDAG 34005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CDAG 43001 TECHNOLOGY OF ANIMATION PRODUCTION 3 Credit Hours
A course dealing with the technical and business aspects of pre- and post production planning for multimedia video or film projects. Covers a systematic approach to content organization and development, scripting, visualization proposal development contracts, budgets and legal issues.
Prerequisite: CDAG 34001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

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

Computer Technology (COMT)

COMT 11000 INTRODUCTION TO OFFICE PRODUCTIVITY APPS 3 Credit Hours
(Equivalent to MIS 24053) Covers the basic concepts and use of computer systems, including hardware, personal productivity software, Internet usage and file management.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Business

COMT 11002 VISUAL BASIC PROGRAMMING 3 Credit Hours
Visual Basic.NET language introducing concepts of object-oriented, event-driven program design and implementation.
Prerequisite: COMT 11004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 11004 SURVEY OF INFORMATION TECHNOLOGY 3 Credit Hours
Overview introduction to information technologies, career paths and professional certifications available.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 11005 INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY 3 Credit Hours
Survey of desktop and network operating systems essentials, including file and disk management, system tools utilization, resource sharing and introductory network concepts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 11006 INTRODUCTION TO WEB SITE TECHNOLOGY 3 Credit Hours
Focuses on website technologies, including HTML. Students learn the history of the Internet and effective search techniques.
Prerequisite: COMT 11004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 11009  COMPUTER ASSEMBLY AND CONFIGURATION  4 Credit Hours
Covers disk operating system functions and features; hardware/software installation procedures; file and directories management; system configuration/optimization; backup procedures.
Prerequisite: COMT 11005 or CS 33211 or DSCI 26010 or TECH 10001.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

COMT 12000  INTERMEDIATE OFFICE PRODUCTIVITY APPS  3 Credit Hours
Covers intermediate concepts and integration of computer applications. Emphasis on software suites, specifically word processing, electronic spreadsheets, database and presentation applications.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 20001  C++ PROGRAMMING  3 Credit Hours
Course using C++ introducing concepts of software development, object-oriented event-driven programming, testing and debugging, simple and complex data types language syntax and semantics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 20011  JAVA PROGRAMMING  3 Credit Hours
Course using Java introducing concepts of software development, object-oriented event-driven programming, testing and debugging, simple and complex data types language syntax and semantics.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 20021  C SHARP PROGRAMMING  3 Credit Hours
Introductory concepts of C Sharp: development environment, variables, decisions, looping, arrays, strings, methods, exception and event handling.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 21002  NETWORK SETUP AND CONFIGURATION  4 Credit Hours
Introduces networking in local area network (LAN) and wide area network (WAN) environments. Topics include network protocol, configuration, operation, setup, installation, administration, management and security.
Pre/corequisite: COMT 11009.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

COMT 21005  VISUAL BASIC DATABASE PROGRAMMING  4 Credit Hours
Advanced course in the visual basic language focusing on database systems development.
Prerequisite: COMT 11002 or CS 13001 or DSCI 15310 or MIS 24065.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

COMT 21007  INTERNET ETHICS AND POLICIES  3 Credit Hours
Covers the ethics, issues and policies regarding the Internet. Course includes discussion/research on intellectual property/freedom, hacking, pornography, privacy.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 21008  COMPUTER METHODS IN SCIENCE AND ENGINEERING  3 Credit Hours
Use of computers in problems related to science and engineering. Course includes introduction to elements of a high-level scientific language.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 21010  WORKGROUP PRODUCTIVITY SOFTWARE  3 Credit Hours
Research project-oriented course emphasizing workgroup methodologies for group project management, problem definition, data retrieval and analysis, conclusions and recommendations.
Prerequisite: COMT 12000; or OTEC 16639 and OTEC 26611.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 21011  TECHNIQUES OF MULTIMEDIA WEB DESIGN  3 Credit Hours
Focuses on developing and managing effective web sites using multimedia elements, including sound and video.
Prerequisite: COMT 11006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 21036  WEB SCRIPTING I  3 Credit Hours
Course focuses on client-side scripting needed to create interactive and dynamic websites. The use of scripting in context with various technologies is explored.
Prerequisite: COMT 11002 and COMT 11006; or CS 13001 and CS 27101; or MIS 24065; or TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 21092  COMPUTER PRACTICUM (ELR)  1-3 Credit Hours
(Repeatable for credit) Supervised work experience in information technology environment; 45 hours supervised work experience per credit hour.
Prerequisite: sophomore standing.
Schedule Type: Practicum or Internship
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement
COMT 21095  SPECIAL TOPICS IN COMPUTER TECHNOLOGY  1-4 Credit Hours
(Repeatable for credit) Topics announced when scheduled.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter
COMT 21096  INDIVIDUAL INVESTIGATION IN COMPUTER TECHNOLOGY  1-4 Credit Hours
(Repeatable for credit) Individual study in computer field.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 7-28 other
Grade Mode: Standard Letter
COMT 21100  LOCAL AREA NETWORK TROUBLESHOOTING  3 Credit Hours
Covers local area network troubleshooting techniques. Topics include identifying the scope of the problem, systematic troubleshooting approaches, problem resolution and ongoing maintenance.
Prerequisite: COMT 21002 or CS 33211 or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 21110  INTRODUCTION TO ROUTING AND SWITCHING  3 Credit Hours
Introduces internetworking concepts. Topics include networking standards, cabling, Transmission Control Protocol (TCP), Internet Protocol (IP), router configuration, location area network (LAN) and wide area network (WAN) segments and other related topics.
Prerequisite: COMT 21002 or CS 33211 or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 21200  ETHICAL HACKING  3 Credit Hours
Tools and techniques ethical hackers and security testers use to discover vulnerabilities and solutions to protect computer networks.
Prerequisite: COMT 21002 or CS 33211 or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 31002  HEALTH INFORMATION TECHNOLOGY SUPPORT  3 Credit Hours
Course covers skills and knowledge required to implement and support healthcare IT (HIT) systems including regulatory and compliance issues; organizational behavior, IT and medical business operations; best practices and security.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 32002  LINUX NETWORKING  4 Credit Hours
Course covering network administration topics with the Linux operating system. Topics include distributions, storage solutions, network services and current security practices.
Prerequisite: COMT 21002 or CS 33211 or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
COMT 36095  SPECIAL TOPICS IN COMPUTER TECHNOLOGY  2-3 Credit Hours
(Repeatable for credit) Various special courses will be announced in the schedule of classes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter
COMT 36301  ADVANCED C++ PROGRAMMING  4 Credit Hours
Course using C++ classes and data abstraction, stream I/O, inheritance, standard template library, Microsoft Foundation Classes, system programming concepts using Unified Modeling Language.
Prerequisite: COMT 20001.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
COMT 36302  ADVANCED C SHARP PROGRAMMING  3 Credit Hours
Advanced concepts of C Sharp including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and Extensible Application Markup Language (XAML). Preprerequisite: COMT 20021.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 36303  DIGITAL IMAGE MANIPULATION  3 Credit Hours
Course covers various concepts involved in the creation and manipulation of digital images.
Prerequisite: COMT 11006.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 36308  ERGONOMICS IN COMPUTER SYSTEMS  3 Credit Hours
Introduction to ergonomics, usability design and assessment methods for the development of computer hardware, software and systems.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 36309 PROGRAMMING MOBILE APPLICATIONS 3 Credit Hours
Introduces the unique program design considerations required by mobile device platforms such as PDAs and Smartphones. Practical programming examples will utilize Visual Basic and the .NET Compact Framework.
Prerequisite: COMT 11002 or COMT 20001 or COMT 20021 or CS 13001 or DSCI 15310 or MIS 24065.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36310 MULTIMEDIA DEVELOPMENT TOOLS 3 Credit Hours
Course focuses on advanced technologies for Web development, including DHTML, plug-ins, etc. Students learn to create more interactive and dynamic websites.
Prerequisite: COMT 21011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36311 ADVANCED JAVA PROGRAMMING 4 Credit Hours
Course using Java abstract data types and objects, object-oriented, event-driven design, file organization and access, and systems programming concepts.
Prerequisite: COMT 20011.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

COMT 36314 SEMINAR IN EMERGING COMPUTER AND INFORMATION TECHNOLOGIES 3 Credit Hours
Survey of new and emerging technologies in computer and information technology.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36315 CERTIFICATION PREPARATION IN COMPUTER TECHNOLOGY 3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Certification preparation course to help students prepare for professional certification attempts in computer technology. Certification is not guaranteed, and certification fees may apply.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36318 SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC) 3 Credit Hours
Course provides a non-technical introduction to contemporary issues in information security, Internet fraud and computer forensics.
Prerequisite: ENG 21011 or HONR 10297; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

COMT 36320 COMPUTER FORENSICS 3 Credit Hours
Hands-on skills in incident response, forensic preparation and data recovery and analysis.
Prerequisite: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36321 NETWORK FORENSICS 3 Credit Hours
Emphasizing hands-on skills in live incident response, the proper use of network forensic tools, network monitoring, live data capture, evidence analysis, data integrity and other related topics.
Prerequisite: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36322 SOCIAL MEDIA AND MOBILE DEVICE FORENSICS 3 Credit Hours
Course covers data collection and analysis techniques for social media and mobile devices.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36330 LOCAL AREA NETWORK SECURITY FUNDAMENTALS 3 Credit Hours
Examines the primary issues involved in securing resources in a local area network (LAN), including threat assessment, countermeasures, best practices, security protocols, cryptography and management-related issues.
Prerequisite: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36331 ADVANCED ROUTING AND SWITCHING 3 Credit Hours
Reinforcing Internetworking concepts. Topics include network standards, LAN switching, VLANs, network designs, routing protocols and configuration, LAN and WAN segments, and other related topics.
Prerequisite: COMT 21110.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36336 WEB SCRIPTING II 3 Credit Hours
Focuses on server-side scripting needed to create interactive and dynamic websites.
Prerequisite: COMT 21036.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36340 HELP DESK SUPPORT 3 Credit Hours
Examination of help desks that exist, importance within organizations, the roles and skills required, and methods and technologies commonly employed.
Prerequisite: COMT 11009 or TECH 23010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 36350 Programmable Office Productivity Applications 3 Credit Hours
Introduces the use of Visual Basic for Applications (VBA) as a tool to create customized programs that automate repetitive and/or complex tasks performed using office suite applications.
Prerequisite: COMT 11002 and COMT 21010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36355 Command Line Utilities 3 Credit Hours
Course prepares students to perform effectively in Windows, Linux and various server command line environments. Topics include command syntax, batch files, script files and internal and external commands.
Prerequisite: COMT 21002 or CS 33211 or DSCI 26010 or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 36392 Internship for Computer Technology Students (ELR) 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) An arranged work experience for students in the information technology field. Students complete 45 hours of internship per credit.
Prerequisite: Junior standing.
Schedule Type: Practicum or Internship
Contact Hours: 3-9 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

COMT 40000 Cybersecurity 3 Credit Hours
Builds on a background in networking and focuses on cybersecurity best practices, standard models and regulatory requirements.
Prerequisite: COMT 21002 or DSCI 26010 or CS 33211 or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 41002 Cloud Technology 3 Credit Hours
Concepts of cloud computing, including storage, services, technology, and management.
Prerequisite: COMT 21002 or DSCI 26010 or CS 33211 or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 41010 Mobile Applications for Information Technology 3 Credit Hours
Course covers enterprise mobility technical concepts, strategies, and solutions across various domains and industries. Includes topics such as organizational issues, IT and business operations; and best practices and security.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 42000 Social Media Security 3 Credit Hours
Personal and corporate social media presence, security risks, intellectual property and ethical issues.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 42002 Wireless and Mobile Device Security 3 Credit Hours
Course covers wireless and mobile device security. Topics include risk assessments, threats, vulnerabilities and current security practices.
Prerequisite: COMT 21002 or CS 33211 or DSCI 26010 or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 43000 Healthcare Information Systems 3 Credit Hours
Course focuses on the roles and responsibilities of the health information technology professional including the technology, legal and ethical responsibilities and complex systems and environment.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46300 Advanced Computer Assembly and Configuration 3 Credit Hours
Focus is on advanced system components, streamlined operating system installation procedures, and current technology in local area network (LAN) connectivity.
Prerequisite: COMT 11009 and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46303 Digital Video Editing 3 Credit Hours
Utilizes digital imaging technologies to produce videos. Includes timelines; filming, importing/exporting video; audio; effects, transitions and captions.
Prerequisite: COMT 36303.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46308 Advanced Visual Basic Programming 3 Credit Hours
Advanced concepts of visual basic, including classes and objects, inheritance, polymorphism, arrays, exception handling, files and streams and dynamic-link library (DLL).
Prerequisite: COMT 11002 or CS 13001 or DSCI 15310 or MIS 24065.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46309 Visual Basic Web Programming 3 Credit Hours
Using Visual Basic to develop secure, data-aware web applications. Topics covered include HTML and CSS, testing and debugging, master pages, state management, security and authentication, SQL and object data sources, AJAX, and WCF services.
Prerequisite: COMT 11002 or CS 13001 or DSCI 15310 or MIS 24065.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
COMT 46310 TECHNOLOGY OF OPERATING SYSTEMS 3 Credit Hours
Course covers installation, configuration, tuning and communication among state-of-the-art desktop operating systems, using available system tools, utilities and files.
Prerequisite: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46311 TECHNOLOGY OF NETWORKING 3 Credit Hours
Advanced topics of enterprise network management, including DNS, WINS, IP addressing, routing basics, subnet masking, firewalls, storage redundancy techniques, and general tuning, optimizing, troubleshooting, recovery strategies.
Prerequisite: COMT 21002 or CS 33211 or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46312 SCRIPTING FOR NETWORK ADMINISTRATORS 3 Credit Hours
Covers scripting technologies to configure and manage resources and services of local area network (LAN) servers and workstations.
Prerequisite: COMT 21002 and COMT 21036.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION 3 Credit Hours
Focus on configuring and administering virtual machine software.
Prerequisite: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46314 ADVANCED SERVER CONFIGURATION 3 Credit Hours
Course focus is on the core service roles provided by application services, including configuration, maintenance and security.
Prerequisite: COMT 21002; or CS 33211; or DSCI 26010; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46315 SQL WITH ORACLE 3 Credit Hours
Focus is on Structured Query Language (SQL) and relational databases using Oracle, a comprehensive and fully integrated stack of cloud applications and platform services.
Prerequisite: COMT 21005 or CS 13001 or DSCI 15310 or MIS 24065.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46320 CLOUD FORENSICS 3 Credit Hours
Concepts of cloud forensics, including legal consideration and software tools involved with discovery in the cloud.
Prerequisite: COMT 21002; or DSCI 26010; or CS 33211; or TECH 23010 and TECH 26301.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46321 WEB DATABASE INTEGRATION 3 Credit Hours
Course focus is on integrating data sources into websites. Current topics include advanced concepts in server-side processing principles, web forms, database programming objects and Structured Query Language (SQL).
Prerequisite: COMT 21036.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46331 LOCAL AREA NETWORK SECURITY AND FIREWALLS 3 Credit Hours
Course examines the primary issues involved in defining and configuring a local area network (LAN) defense perimeter, including LAN security analysis, implementing firewalls and intrusion detection systems.
Prerequisite: COMT 36330.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

COMT 46340 DATA DESIGN AND IMPLEMENTATION 3 Credit Hours
Explores the role and design of databases in organizations, with emphasis on the technologies used in their implementation. Emphasis on Structured Query Language (SQL).
Prerequisite: COMT 21005 and COMT 21010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Early Childhood Education Technology (ECET)

ECET 21005 PARTNERSHIPS IN CHILD GUIDANCE 3 Credit Hours
( Equivalent to ECED 30142) The course's foundation is the understanding that children are a part of a family, culture and community. Students gain knowledge and skills to implement developmentally appropriate child guidance strategies and learn cross-cultural communication skills. Twelve field experience hours required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: ECED 10120 and ECED 20163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
ECET 21010 INFANT/TODDLER CURRICULUM AND SERVICES 3 Credit Hours
Infant/toddler development, environments and curriculum; theoretical perspectives; family involvement; community involvement; community resources, collaboration and advocacy; 38 hours of field experience required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: ECED 10120 and 20163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECET 21095 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit) Intensive study of significant current issues in the early childhood education field.
Prerequisite: Departmental permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECET 21096 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION TECHNOLOGY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Analysis and special research in the early childhood education field.
Prerequisite: departmental special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

ECET 22000 PRESCHOOL CURRICULUM 3 Credit Hours
Preschoolers' development, environments and curriculum; theoretical perspectives; family involvement; community resources, collaboration and advocacy; 38 hours of field experience required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: ECET 21010 and ECED 20163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECET 22130 EMERGING LITERACY 3 Credit Hours
(Equivalent to ECED 30123) Theoretical and practical issues in acquisition and development of literacy. Developmentally appropriate instructional practices, integration across the curriculum, individual differences and assessment are addressed. Field hours required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
Prerequisite: ECED 10120 and 20163.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ECET 22140 STUDENT TEACHING SEMINAR (ELR) 3 Credit Hours
(Equivalent to ECED 40165) A reflective approach to make student teaching experience more valuable. Students develop and implement developmentally appropriate curriculum and assessment for young children, prepare a professional development plan and develop a professional portfolio.
Prerequisite: departmental special approval.
Corequisite: ECET 22150.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ECET 22192 STUDENT TEACHING (ELR) 4 Credit Hours
(Equivalent to ECED 40192) Student spends 180 hours at an approved preschool program under the supervision of an ECET or ECED faculty member or supervising teacher. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school/agency before the first day of the semester in which student teaching/internship will take place.
L.I.C.E. Training must be presented to the campus office of clinical experience or designated faculty or staff at Regional campuses as prerequisite for student teaching. Prerequisite: special approval.
Prerequisite: departmental special approval; and official valid certification of Child Safety Training, approved Basic Life Support and A.
Corequisite: ECET 22140.
Schedule Type: Practicum or Internship
Contact Hours: 12 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

Elect Engineering and Related Technologies (EERT)

EERT 10192 OVERHEAD LINE TECHNOLOGY PRACTICUM I (ELR) 5 Credit Hours
Practical application of electrical overhead line worker job duties in a setting under direct supervision of First Energy Personnel. Prior to enrollment, students must be accepted into the First Energy Power Systems Institute (PSI).
Prerequisite: Special approval.
Schedule Type: Practicum or Internship
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 10292 OVERHEAD LINE TECHNOLOGY II PRACTICUM (ELR) 5 Credit Hours
Supervised practical application of electrical overhead line worker duties including the use of ladders, rescue operations, and transformers under the supervision of FirstEnergy personnel.
Prerequisite: EERT 10192; and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement
EERT 12000  ELECTRIC CIRCUITS I  4 Credit Hours
Direct current circuit analysis involving current and voltage, resistance, energy and power, Ohm's law, series and parallel networks. Mesh and nodal analysis, network theorems and DC instruments.
Corequisite: MATH 11010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Electrical Engineer Technology, TAG Engineering Technology

EERT 12001  ELECTRIC CIRCUITS II  3 Credit Hours
Analysis of capacitive, inductive and magnetic circuits and transients in R-L-C combinations. AC network analysis: mesh and nodal, phasor algebra, power factor, resonance.
Prerequisite: EERT 12000.
Corequisite: MATH 11012 or 19002.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 12005  ELECTRICAL/ELECTRONIC DRAWING  2 Credit Hours
Electrical/electronic drawing techniques using computer-aided design emphasizing schematic, block and wiring diagrams. Either printed, circuit or power layout is covered as needed.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

EERT 12010  INTRODUCTION TO ELECTRONICS  4 Credit Hours
Semiconductor theory. Properties and application of PN junctions and bipolar junction transistors, amplifiers, field effect transistors (FET) amplifiers, JFET and MOSFET biasing and their use in simple circuits.
Prerequisite: EERT 12000.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 20192  OVERHEAD LINE TECHNOLOGY III PRACTICUM (ELR)  5 Credit Hours
Supervised practical applications of electrical line worker job duties under the supervision of FirstEnergy personnel. Emphasis on URD equipment, grounding distribution circuits and working with energized three phase circuits.
Prerequisite: EERT 10292; and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 20292  OVERHEAD LINE TECHNOLOGY PRACTICUM IV (ELR)  5 Credit Hours
Supervised practical application of electrical overhead line worker job duties under the direct supervision of FirstEnergy personnel. Emphasis on line equipment, hot line tools, and transmission.
Prerequisite: EERT 20192; and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EERT 21010  ENGINEERING AND PROFESSIONAL ETHICS  3 Credit Hours
Application of codes of ethics in the engineering and technology profession reflective of social and moral responsibilities to the public and accountability in engineering practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 21096  INDIVIDUAL INVESTIGATION IN ELECTRICAL/ENGINEERING TECHNOLOGY  1-4 Credit Hours
(Repeatable for credit) Independent, in depth research of an electrical electronic engineering technology topic supervised and coordinated by an engineering technology faculty member.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

EERT 22000  ELECTRICITY/ELECTRONICS WITH APPLICATIONS  3 Credit Hours
Basic electronics theory and fundamental concepts of electrical/electronic and digital circuits with applications in the various fields of engineering.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 22002  INDUSTRIAL CONTROLS  3 Credit Hours
Introduction to control of AC and DC machinery by electromechanical and solid state devices. Study of circuits, troubleshooting methods and logic systems.
Prerequisite: EERT 12010 or EERT 22000; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 22004  DIGITAL SYSTEMS  4 Credit Hours
Modern integrated digital logic families. Analysis and design of digital circuits such as gates, multivibrators, comparators, counters, registers including interface, control memory and computer circuits. Programmable logic controllers and integrated circuit technologies.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: CTAG Electrical Engineer Technology

EERT 22005  ELECTRONIC INSTRUMENTATION  3 Credit Hours
Understanding of automation control and process characteristics. Application of various type of measurement devices & control equipments.Use of modern simulation software for process control and troubleshooting.
Prerequisite: EERT 12010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EERT 20192; and special approval. 
Schedule Type: Combined Lecture and Lab
Contact Hours: 15 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement 

EERT 22006  ELECTRICAL MACHINES  3 Credit Hours
Introduction to transformer action, losses and efficiency. Fundamentals of DC and AC motors and generators and three phase systems.
Prerequisite: EERT 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 22007  INDUSTRIAL MOTOR CONTROL AND APPLICATION  3 Credit Hours
Application and use of DC, single and polyphase electric motors and industrial control systems. Construction, troubleshooting and operation of starting systems is emphasized.
Prerequisite: EERT 22000.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EERT 22011  ELECTRONIC SYSTEMS  2 Credit Hours
Continuation of EERT 12010. Frequency effects, Miller’s Theorem, decibel notation and negative feedback, Oscillators, Op-amps, circuits and applications, Thyristors and electronically regulated power supplies.
Prerequisite: EERT 12010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 22014  MICROPRACTORS AND ROBOTICS  3 Credit Hours
An introduction to microprocessor system fundamentals, number systems, binary codes, hexa-decimal codes, Programming fundamentals in C, C++ software, Microcontroller hardware architecture and instruction set, with applications to robot systems motor control, sensors.
Prerequisite: none.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

EERT 22015  ROBOTICS AND ADVANCED MICROSYSTEMS  3 Credit Hours
An advanced course in microprocessor software and hardware. Input/output devices and interfacing with applications to robotics. Troubleshooting and design of microprocessor controlled systems.
Prerequisite: EERT 22014.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 22016  PRODUCTIVITY SOFTWARE FOR INDUSTRY  1 Credit Hour
(Repeatable for a maximum of 3 credit hours) Introduces students to the use of computers for word processing, spreadsheets and database management applications. Students receive hands-on training on the use of the software applicable to engineering problems using hands-on formats.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 1 lab
Grade Mode: Satisfactory/Unsatisfactory-IP

EERT 22018  PC/TROUBLESHOOTING  3 Credit Hours
Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks is covered. Students learn communication protocols and network architecture. Two lectures and two labs.
Prerequisite: none.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

EERT 22095  SPECIAL TOPICS IN ELECTRICAL/ELECTRONIC AND RELATED ENGINEERING TECHNOLOGIES  1-3 Credit Hours
(Repeatable for credit) Special topics in electrical/electronic engineering technology.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

EERT 23000  SENSORS  2 Credit Hours
A study of sensors, transducers, relays, solenoids, servomotors, actuators, lasers, LEDs, photonic and temperature sensors and electronic devices in electromechanical control.
Prerequisite: Sophomore standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 other
Grade Mode: Standard Letter

EERT 32003  TECHNICAL COMPUTING  3 Credit Hours
A hands-on introduction to computation, through object-oriented programming and problem solving. Programming in the C++ language.
Corequisite: MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EERT 32005  INSTRUMENTATION  3 Credit Hours
Introduction to modern industrial controls, interfacing devices, transducer systems, and process control methods.
Prerequisite: Junior Standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter

Engineering Technology (ENGT)

ENGT 12005  APPLICATIONS IN COMPUTER-AIDED DESIGN  2 Credit Hours
Course for training on the use of a popular, computer-aided drafting and design software. Practice with the advanced features of the software applicable to modern design in the graphics, mechanical, industrial and electronics fields.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
ENGT 20192  INTERNSHIP IN ENGINEERING TECHNOLOGY (ELR)  2 Credit Hours
(Repeatable for credit) Supervised internship experience in approved business or industrial environment relative to the student's major. The internship experience must be for a period of at least 12 consecutive weeks at 25 hours per week, or 20 hours per week for 15 weeks, totaling not less than 300 hours. Most co-ops occur during the summer.
Prerequisite: Sophomore standing; and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 20 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ENGT 22000  STATISTICAL PROCESS CONTROL  4 Credit Hours
Process variability, process monitoring, statistical methods using control charts for variables and attributes; acceptance sampling plans; process capability, process adjustment, process improvement.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

ENGT 22003  SUPERVISION AND LABOR RELATIONS  5 Credit Hours
Practical methods and techniques for improving supervision and labor relations in industry. Personnel and performance evaluation, implementing policy, labor contracts, collective bargaining, wage and salary administration.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

ENGT 22006  ECONOMIC DECISION ANALYSIS  3 Credit Hours
Economic decision making for industrial engineering technology with applications emphasis, estimating economic elements, interest and economic equivalence, methods of comparing alternatives and evaluating replacement alternatives.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering

ENGT 22010  COMPUTER INTEGRATED MANUFACTURING  3 Credit Hours
Planning, developing and implementing a strategy to control and coordinate all the engineering production and business operations within a manufacturing enterprise.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ENGT 33095  SPECIAL TOPICS IN ENGINEERING TECHNOLOGY  1-4 Credit Hours
Special topics of immediate interest in engineering technology.
Prerequisites: Junior Standing
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

Enology (ENOL)

ENOL 14600  INTRODUCTION TO ENOLOGY  3 Credit Hours
Targets people who became interested in home winemaking with possibilities to grow into the small business opportunity, as well as cellar employees interested in winemaking career. During this course, students build proper basic understanding of winemaking which alleviates common home winemaker's errors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

ENOL 14800  WINERY SANITATION  3 Credit Hours
The basic science and technology of winery sanitation that includes an introduction to wine microbiology. Covers all methods used for winery sanitation including premises, tanks, pumps, filters, oak barrels and sampling equipment, including but not limited to chemical agents, reagents and thermal treatments leading to sterile bottling. Environmental issues and compliance are also addressed.
Prerequisite: ENOL 14600.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

ENOL 16000  WINERY EQUIPMENT OPERATION  2 Credit Hours
Covers process technologies and process systems used in modern commercial wineries. Overview of winemaking systems, including work place safety, cleaning and sanitation procedures, winemaking equipment and materials, tanks, barrels and barrel alternatives, filtration systems and bottling equipment. Also touches upon on chillers and electrical needs.
Prerequisite: ENOL 14600.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

ENOL 21000  INTRODUCTION TO WINE MICROORGANISMS  3 Credit Hours
Introduction to the basic principles of wine microbiology and the variety of microorganisms frequently encountered in the wine making process. Yeasts, bacteria and molds play vital roles in the production of wine, both beneficial and harmful. Students become familiar with the morphology, reproduction and sensory attributes of wine microorganisms in order to understand their influence on winemaking and to be able to manage them effectively.
Prerequisite: ENOL 14600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 24600  INTERMEDIATE ENOLOGY - HARVEST AND CRUSH  2 Credit Hours
Focused on advanced science and technology concepts of winemaking as it relates to pre-harvest, fruit harvest, and procedures involved in juice and must preparation. Builds on the fundamentals taught in Introduction to Enology, Molecular Principles of Grape and Wine, and Wine Microbiology.
Prerequisite: ENOL 14600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 1 lab
Grade Mode: Standard Letter-IP
ENOL 24700 INTERMEDIATE ENOLOGY - POSTHARVEST 2 Credit Hours
Focused on advanced science and technology concepts of winemaking as it relates to post harvest procedures involved in stabilization, clarification, fining, and bottling. Builds on the fundamentals taught in Introduction to Enology, Molecular Principles of Grape and Wine, Wine Microbiology, Wine and Must Analysis, and Intermediate Enology Harvest and Crush.
Prerequisite: ENOL 14600 and ENOL 24600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 25792 FALL WINE PRODUCTION FIELD WORK (ELR) 3 Credit Hours
Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries.
Prerequisite: ENOL 14600; and ENOL 14800; and ENOL 16000.
Corequisite: ENOL 24600.
Schedule Type: Field Experience, Lecture
Contact Hours: .5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENV 25992 CELLAR OPERATIONS FIELD WORK (ELR) 2 Credit Hours
Provide students initiated in the field of enology with actual and practical exposure to the technology of wine making as is performed during the passive vineyard periods associated with winter and spring. Students are expected to improve their understanding of the methods and science involved by on-site participation in each of the various activities associated with finished wine production. Course serves as actual practical exposure and may qualify as experience for those seeking employment in commercial enology.
Prerequisite: ENOL 25792.
Schedule Type: Field Experience, Lecture
Contact Hours: .6 lecture, 4.25 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

ENOL 26600 SENSORY EVALUATION 3 Credit Hours
Intended for those individuals who need to develop an understanding of the principles of sensory evaluation used in commercial wine making. It also benefits wine enthusiasts interested in reaching advanced levels of appreciation, as well wine producers, wine merchants and enologists, who by the nature of their profession need to discern flavors and establish tasting benchmarks. Students practice sensory analysis at home and in workshops to further their sensory evaluation skills and techniques.
Prerequisite: ENOL 14600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

ENOL 26800 WINE AND MUST ANALYSIS 3 Credit Hours
Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries.
Prerequisite: ENOL 14600.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2.5 lecture, 1 lab
Grade Mode: Standard Letter-IP

Environmental Health and Safety (EVHS)

EVHS 10001 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours
Survey course in environmental technology, including health and safety, history, environmental compliance and related issues.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EVHS 10004 TOXICOLOGY 3 Credit Hours
Examination of the terminology and classification of poisons that affect humans. Includes poison sources, modes of exposure, health effects and control measures.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EVHS 10010 INDUSTRIAL HYGIENE I 4 Credit Hours
In-depth study of safety methods and procedures with lab for identifying, monitoring, handling, containing and disposing of hazardous substances and hazardous conditions in the workplace.
Prerequisite: EVHS 10004.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

EVHS 20001 ENVIRONMENTAL LAW 3 Credit Hours
Emphasize civil, criminal and tort liability issues; procedural and constitutional requirements; and administrative codes, rules and regulations for fire, health, safety and environmental hazards.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EVHS 20004 ENVIRONMENTAL HEALTH AND SAFETY I 3 Credit Hours
Examination of hazards assessment including organizational, environmental and disaster planning; health and safety inspection and reporting criteria; and first aid procedures.
Prerequisite: EVHS 10001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
EVHS 20008 ENVIRONMENTAL SAFETY ADMINISTRATION 3 Credit Hours
Organization and operation of environmental safety unit; relationships with business governmental and community entities involved in environmental safety and hazards control.
Prerequisite: EVHS 10010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EVHS 20092 ENVIRONMENTAL TECHNOLOGY INTERNSHIP I (ELR) 3 Credit Hours
(Repeatable for credit) This on- or off campus experience gives students an opportunity to apply learned concepts in the classroom to practical environmental technology situations.
Prerequisite: EVHS 20008.
Schedule Type: Practicum or Internship
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EVHS 21010 INDUSTRIAL HYGIENE II 4 Credit Hours
Emphasis is placed on methodologies of gas, vapor, and aerosol sampling; including instrumentation function and calibration. Measurement and evaluation of physical hazards including noise, heat stress, lighting and radiation hazards. Includes a major emphasis upon the types of problems and calculations likely to be found in general industry. Laboratory exercises and use of a case study to explore the methods of sampling.
Prerequisite: BSCI 10120; and CHEM 10052; and EVHS 10010.
Schedule Type: Lecture
Contact Hours: 3 lecture, 1 lab
Grade Mode: Standard Letter

EVHS 21092 ENVIRONMENTAL TECHNOLOGY INTERNSHIP II (ELR) 3 Credit Hours
(Repeatable for credit) This on- or off campus experience gives students an opportunity to apply learned concepts in the classroom to practical environmental technology situations.
Prerequisite: EVHS 20092 and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

EVHS 22095 SPECIAL TOPICS IN ENVIRONMENTAL HEALTH AND SAFETY 3 Credit Hours
(Repeatable for a total of 6 hours) Specialized instruction oriented primarily to application of current technology developed for the field of environmental technology. Course is repeatable as the specific topics will vary.
Prerequisite: special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EVHS 22096 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH AND SAFETY 1-3 Credit Hours
(Repeatable for credit) Independent research of environmental technology topic supervised by an environmental technology faculty member.
Prerequisite: special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

EVHS 30002 ENVIRONMENTAL ISSUES II 3 Credit Hours
Current topics in environmental technology including climate change and alternate energy sources.
Prerequisite: EVHS 10001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

EVHS 30020 HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE 4 Credit Hours
Study of hazardous waste operations and emergency response to release of hazardous materials in compliance with EPA and OSHA regulations (29CFR 1910.120).
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

EVHS 40006 FIRE PREVENTION AND CONTROL 3 Credit Hours
Conditions and properties conducive for combustible states and hazards, techniques and procedures for fire extinguishing and control; preventative strategies; fire codes and alarm systems.
Prerequisite: EVHS 10001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Green and Alternate Energy (GAE)

GAE 32000 FUEL CELL TECHNOLOGY 3 Credit Hours
Designed to provide a general perspective to fuel cell technology. Students are introduced to the various types of fuel cells, historical perspective, terminology, applications, fuel cell operation, basic electrochemical and thermodynamics principles involved in fuel cells, fuel cell components, materials and systems. Students learn basic fuel cell design principles and calculations.
Prerequisite: PHY 13012 or PHY 13002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GAE 42002 ENERGY MANAGEMENT SYSTEMS 3 Credit Hours
Covers modern theory and applications of energy management. Students use software tools for the control and effective energy management of systems of diverse configurations. Students learn how to build device-to-enterprise applications and Internet-enabled products and software applications for controlling and managing diverse smart devices across an enterprise in real time.
Prerequisite: junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

GAE 42003 LEAN MANUFACTURING, SIX SIGMA AND OPERATIONS TECHNOLOGY 3 Credit Hours
Designed to provide a better understanding of the components and underlying philosophy of Theory of Constraints, Lean, and Six Sigma and how the elements and philosophies work together to support an companies operational plan.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
GAE 42004 ADVANCED FUEL CELL TECHNOLOGY 3 Credit Hours
Covers the theory and applications of fuel cell technology with an emphasis to proton exchange membrane fuel cells (PEMFCs). Students learn fuel cell component, stack and system design principles and fabrication methods, performance characterization, fuel cell testing and diagnostics methods. Students are introduced to transport phenomena in fuel cells. Introduction to hydrogen storage, generation and delivery, as well as hydrogen safety and regulations.
Prerequisite: GAE 32000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORTiculture (HORT)

HORT 10195 SPECIAL TOPICS IN HORTICULTURE 1-3 Credit Hours
(Repeatable for credit) Analysis of significant and current issues in horticulture not covered in regular courses.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

HORT 16001 INTRODUCTION TO HORTICULTURE 1 Credit Hour
A survey of those opportunities available within the "green industry" both in education and as a career option. Guest speakers and field trips are part of the class.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

HORT 16010 FLORAL DESIGN I 3 Credit Hours
Introduction to the concepts and practices of floral design for use in commercial settings. Topics include floral design theory, history, techniques and the skills required in the commercial floral design industry. Lab experience covers construction of basic floral products.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 16011 FLORAL DESIGN II 3 Credit Hours
Advanced training in a broad array of floral design applications including wedding design, contemporary European and Asian design, tropical flowers and outdoor compositions. Students will be provided hands-on laboratory activities to apply the principles of design.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

HORT 16020 PLANT MATERIALS I 3 Credit Hours
Design, selection, culture, and maintenance of flowering plants and foliage including annuals, perennials, bulbs and tropical plants for indoor and outdoor use.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16021 WHOLESALE FLORICULTURE 3 Credit Hours
Commercial production, marketing, inventory management and post-harvest care associated with the floriculture industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 16022 GREENHOUSE STRATA 3 Credit Hours
Introduction to growing containerized plants in greenhouses and nurseries. Emphasis will be on issues related to traditional and alternative substrates, root media, irrigation practices, and soil matter.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HORT 26001 OCCUPATIONAL REGULATIONS AND SAFETY 2 Credit Hours
Presentation of the basic standards, rules, safety regulations and laws pertaining to horticultural and related industries which will affect the work atmosphere. Lecture two hours weekly; offered only at the Geauga and Salem campuses.
Corequisite: BSCI 16001 and HORT 16001.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HORT 26011 COOPERATIVE WORK EXPERIENCE IN TREE CARE 3 Credit Hours
(Repeatable for credit) Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience classes will be allowed.
Corequisite: HORT 26010.
Schedule Type: Field Experience
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP

HORT 26012 URBAN FORESTRY 3 Credit Hours
Urban forestry and the planning and managing of urban green-scapes. Appraisal and computerized GIS/GPS inventory of urban vegetation, urban land use planning and legal ordinances, maintenance and management of street and park trees. Outdoor field trips and guest lecturers.
Prerequisite: HORT 16001 and BSCI 16001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
HORT 26016  IRIGATION DESIGN AND MAINTENANCE  3 Credit Hours  
Principles of irrigation design, installation maintenance and drainage.  
Specific information about the selection of sprinkler heads, pipe, pumps,  
basic hydraulics, water conservation methods and automatic control  
systems shall be explored. Drawing of irrigation plans shall be required.  
Prerequisite: HORT 16001 and BSCI 16001.  
Schedule Type: Combined Lecture and Lab  
Contact Hours: 3 other  
Grade Mode: Standard Letter  

HORT 26018  LANDSCAPE CONSTRUCTION  3 Credit Hours  
The basic skills and techniques involved in landscape contracting and  
construction, including building material data, site grading, contour  
mapping, deck construction, water features, lighting, landscape paving  
and retaining walls. Field trips and outside hands-on experience.  
Prerequisite: HORT 16001 or advisor’s approval.  
Schedule Type: Combined Lecture and Lab  
Contact Hours: 3 other  
Grade Mode: Standard Letter  

HORT 26020  LANDSCAPE MANAGEMENT  3 Credit Hours  
A detailed discussion and practice of managing trees, shrubs and  
flowers within the landscape. Additional concepts such as the types of  
equipment used in the ”green industry,” marketing, writing specifications,  
bidding projects and personnel management.  
Prerequisite: BSCI 16001 and HORT 16001.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HORT 26021  COOPERATIVE WORK EXPERIENCE IN LANDSCAPE  
MANAGEMENT  3 Credit Hours  
(Repeatable for credit) Cooperative work program through which the  
skills necessary to perform professionally in this occupation will be  
acquired. This course offered only at the Salem Campus. Requires a  
minimum of 30 hours per week of work experience. Not more than 9  
semester hours in this or a combination of other work experience will  
be allowed.  
Corequisite: HORT 26020.  
Schedule Type: Field Experience  
Contact Hours: 3 lecture  
Grade Mode: Satisfactory/Unsatisfactory-IP  

HORT 26030  TURF GRASS MANAGEMENT  3 Credit Hours  
Basic principles of turf management. Covers turf equipment and the safe  
use of equipment commonly found in the turf industry. Lecture two hours  
weekly; lab three hours weekly; course offered only at the Salem campus.  
Prerequisite: BSCI 16001 and HORT 16001.  
Schedule Type: Combined Lecture and Lab  
Contact Hours: 2 lecture, 3 lab  
Grade Mode: Standard Letter  

HORT 26031  COOPERATIVE WORK EXPERIENCE IN TURF GRASS  
MANAGEMENT  3 Credit Hours  
(Repeatable for Credit) Cooperative work program through which the  
skills necessary to perform professionally in this occupation will be  
acquired. This course offered only at the Salem Campus. Requires a  
minimum of 30 hours per week of work experience. Not more than 9  
semester hours in this or a combination of other work experience classes  
will be allowed.  
Corequisite: HORT 26030.  
Schedule Type: Field Experience  
Contact Hours: 3 lecture  
Grade Mode: Satisfactory/Unsatisfactory-IP  

HORT 26032  GOLF COURSE MANAGEMENT  3 Credit Hours  
The golf course environment as it relates to turf grass maintenance and  
pest/disease management. The construction and management of greens,  
tees, water and bunker management practices, turf aerification issues,  
topdressing and administrative concerns.  
Prerequisite: HORT 16001 and HORT 26031 and BSCI 16001.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HORT 26046  LANDSCAPE DESIGN I  3 Credit Hours  
An introduction to landscape appreciation and history, the landscape  
industry and elements of the landscape design process. Students will  
assess proper plant placement and uses, develop graphic communication  
skills and present a project. Field trips and project site work as required.  
Prerequisite: HORT 16001 and BSCI 16001 and BSCI 26003.  
Schedule Type: Combined Lecture and Lab  
Contact Hours: 2 lecture, 4 lab  
Grade Mode: Standard Letter  

HORT 30195  SPECIAL TOPICS IN HORTICULTURE  3 Credit Hours  
(Repeatable for credit) Analysis of significant and current topics in  
horticulture not covered in regular classes.  
Prerequisite: None.  
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab  
Contact Hours: 2 lecture, 2 lab  
Grade Mode: Standard Letter  

HORT 36014  PLANT PROPAGATION AND GREENHOUSE PRODUCTION  
3 Credit Hours  
Asexual/vegetative propagation including anatomical and physical  
concepts. Techniques covered include cuttings, budding, grafting,  
layering, dividing and micropropagation. Plant propagation by seeding  
and plugs are promoted along with crop production. Students provide an  
annual production schedule. Lecture two hours weekly; lab three hours  
weekly.  
Prerequisite: HORT 16001 and BSCI 16001.  
Schedule Type: Combined Lecture and Lab  
Contact Hours: 2 lecture, 3 lab  
Grade Mode: Standard Letter  

HORT 36018  LANDSCAPE CONSTRUCTION II  3 Credit Hours  
Advanced landscape construction techniques involved in landscape  
contracting with an emphasis on the overall layout and planning  
of a landscape project. Students master and research product  
documentation, layout plans, written specifications and detailed  
construction drawings as they pertain to built landscape environments.  
Specific field site work with real world applications. Lecture two hours  
weekly; lab 3 hours weekly.  
Prerequisite: HORT 26018; and junior or senior standing.  
Schedule Type: Combined Lecture and Lab  
Contact Hours: 2 lecture, 3 lab  
Grade Mode: Standard Letter  

HORT 36025  PROFESSIONAL PRACTICE IN HORTICULTURE (WIC)  3  
Credit Hours  
Investigation into owning and operating a green industry company  
including customer relations, wholesale and retail marketing, project  
bidding, potential profit and loss margins, communication requirements,  
and overall services to public and private clientele.  
Prerequisite: HORT 26001 and 26016 and 26018.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  
Attributes: Writing Intensive Course
HORT 36034  SPORTS TURF MANAGEMENT  3 Credit Hours  
Identification of grass plant species; culture and morphology; turf ecology with practical information on turf establishment and cultural practices. Covers issues of design, renovation, and maintenance of sports grounds and facilities. Class requires 20 hours service learning component.  
Prerequisite: HORT 26030; and junior or senior standing.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HORT 36046  LANDSCAPE DESIGN II  3 Credit Hours  
Advanced landscape design looking at overall landscape planning, including site and planting design, site amenities, irrigation design and client needs. Special attention to communication formats such as color rendering and graphics, as well as to overall presentation. Some design modeling and graphic sketching are included.  
Prerequisite: HORT 26012 or 26032 or 26046; and junior or senior standing.  
Schedule Type: Combined Lecture and Lab  
Contact Hours: 2 lecture, 3 lab  
Grade Mode: Standard Letter  

HORT 36092  INTERNSHIP IN HORTICULTURE (ELR)  1-4 Credit Hours  
(Repeatable for credit) Internship experience in an advanced field of study within the horticulture/green industry, building on the student’s understanding of science-based fundamentals. Internship requires a minimum of 210 working hours with an approved public organization or private green industry firm, and 2 hours per week consultation on independent research as approved and supervised by the academic program director. Work includes supporting documentation and written reports as deemed appropriate give the subject studied.  
Prerequisite: Special approval.  
Schedule Type: Practicum or Internship  
Contact Hours: 3-12 other  
Grade Mode: Standard Letter  
Attributes: Experiential Learning Requirement  

HORT 41096  INDIVIDUAL INVESTIGATION IN HORTICULTURE  1-3 Credit Hours  
(Repeatable for credit)Research under the direction of a horticulture faculty/program director mentor. Investigation of specific horticulture topics that build upon previous concentration areas of study.  
Prerequisite: junior or senior standing.  
Schedule Type: Individual Investigation  
Contact Hours: 1-3 other  
Grade Mode: Standard Letter-IP  

HORT 46014  GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT  3 Credit Hours  
Survey of plant production of container, bare-root, balled-in-burlap plant materials in a nursery setting. Exploration of physiological principles involved, including planting, maturity dates for harvest, shipping, garden center activities and wholesale and retail marketing of stock.  
Prerequisite: BSCI 26002 and BMRT 11000; and junior or senior standing.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HORT 46092  PRACTICUM IN HORTICULTURE (ELR)  3 Credit Hours  
(Repeatable for credit) An in-depth individual project, combining field experiences with original research within a green industry niche. Area of interest supports the student’s educational goals given their intended concentration of past class work.  
Prerequisite: HORT 36092; and junior or senior standing.  
Schedule Type: Practicum or Internship  
Contact Hours: 16 other  
Grade Mode: Standard Letter-IP  
Attributes: Experiential Learning Requirement  

Human Services (HSRV)  

HSRV 11000  FOUNDATIONS OF HUMAN SERVICES  3 Credit Hours  
An overview of the roles, history, values, systems, policies, theories and core conceptions of the human services professions across a range of social problems including child abuse and neglect, addictions, poverty, aging, mental health and illness, prevention and corrections, etc., and society’s response through the human service delivery system.  
Prerequisite: None.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HSRV 11001  GROUP METHODS IN HUMAN SERVICES  3 Credit Hours  
Introduction to theory, research and application of the practice, structure and function, analysis, problem solving strategies and skills in working with small groups with respect to the cultural context, types of groups and special populations such as addiction are addressed from a systems perspective within the human services purposes, values and ethics framework.  
Prerequisite: None.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HSRV 11002  SURVEY OF COMMUNITY RESOURCES  3 Credit Hours  
A survey of providers at the federal, regional, state and local levels, including services provided and regulations of private and public agencies.  
Prerequisite: none.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

HSRV 21000  DYNAMICS OF HELPING RELATIONSHIPS  3 Credit Hours  
Introduction to communication skills in systems of professional practice with emphasis on skill development in motivational interviewing, principles of effective communication, functions and purposes of communication, active listening, building empathy, establishing therapeutic rapport, case conceptualization and provisions of assistance.  
Prerequisite: None.  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter
HSRV 21001  ASSESSMENT METHODS IN HUMAN SERVICES  3 Credit Hours
Introduction to client assessment, intervention and evaluation methods for generalist practice within a strengths-based recovery model with emphasis on the biopsychosocial development across the lifespan. Understanding of mental illness, addictions, developmental disabilities and the impact of trauma, etc.; utilization of specific assessment skills and tools including: stages of change, level of care, recovery and resiliency, crisis response and de-escalation, etc. 
Prerequisite: HST 11000 or HST 21003; or permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21002  COMMUNITY SUPPORTIVE CASE MANAGEMENT AND ADVOCACY IN HUMAN SERVICES  3 Credit Hours
Introduction to the purposes, intent and activities of a community supportive case manager: assessment, facilitation and coordination of services, linkage, referral, coordination assistance in crisis management and stabilization, outreach, education, training, intervention, support and elimination of barriers to autonomy. Develop an understanding of systems of care; and population characteristics: mental health, addiction, recovery, culture, age, and gender, etc. with emphasis on advocacy in human services practices. Recommend students take HST 21001 in preparation.
Prerequisite: HSRV 11000 or HSRV 21003, or permission.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21003  SOCIAL WELFARE IN HUMAN SERVICES  3 Credit Hours
Introduction to the history and development of social welfare including current federal and state social policy in the delivery of services; understanding of ideologies, values and ethics forming the social services foundation; financial, organizational and administrative structures influencing social services; fields of practice, populations served, mechanisms of poverty, oppression and discrimination; diversity issues in delivery of services and empowering at risk and vulnerable populations. Prerequisites: None
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

HSRV 21092  INTERNSHIP IN HUMAN SERVICES I (ELR)  3 Credit Hours
(Repeatable for credit) Supervised field experience in a human service agency totaling equivalent of 315 hours. Joint university-agency supervision. Prerequisites: Special Approval.
Schedule Type: Practicum or Internship
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

HSRV 21192  INTERNSHIP IN HUMAN SERVICES II (ELR)  3 Credit Hours
(Repeatable for credit) Continued supervised field experience in a human service agency totaling 315 hours equivalent. Joint university-agency supervision. Prerequisites: Special Approval.
Schedule Type: Practicum or Internship
Contact Hours: 21 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Insurance Studies (INS)

INS 29000  INTRODUCTION TO INSURANCE AND RISK  3 Credit Hours
Introduction into the fields of insurance and risk management including, property and casualty, life, health, auto and other types of insurances. Personal and commercial risks are identified and quantified for potential loss.
Prerequisite: ACTT 11000 or BMRT 11000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 39000  INSURANCE LAW, FINANCE AND RISK MANAGEMENT  3 Credit Hours
Next-level insurance and risk management topics including ERM, insurance law and financial statement analysis. Other topics include impact of laws and regulation on insurers and additional elements of life insurance, annuities, IRAs, auto insurance, crime insurance and surety bonds.
Prerequisite: INS 29000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 39001  INSURANCE OPERATIONS (WIC)  3 Credit Hours
Introduction into the fields of insurance and risk management including, property and casualty, life, health, auto and other types of insurances. Personal and commercial risks are identified and quantified for potential loss.
Prerequisite: ACTT 11000 or BMRT 11000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 39001  INSURANCE OPERATIONS (WIC)  3 Credit Hours
A detailed review of the strategic and tactical operations of the insurance industry. Explores the Function and role of insurers, claims management, rate making, financial structures and underwriting.
Prerequisite: INS 39000 with a minimum grade of C (2.000).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49000  LIFE AND HEALTH INSURANCE  3 Credit Hours
A detailed review of life and health insurance and their impact on individuals and society. The objective is a familiarization with various life and health products and how these products protect people and their families against financial losses caused by death, accident, sickness or disability.
Prerequisite: INS 39001 with a minimum grade of C (2.000).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
INS 49001 PERSONAL LINES INSURANCE 3 Credit Hours
Study of property and casualty personal lines of insurance including automobile, homeowner, dwelling and other residential policies, "toys" such as motor homes, motorcycles and boats, and high-risk plans for earthquake, flood and windstorm.
Prerequisite: INS 39001 with a minimum grade of C (2.000).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49002 COMMERCIAL INSURANCE 3 Credit Hours
Advanced concepts in commercial lines insurance including commercial property, commercial liability, business income, commercial crime and equipment breakdown insurance, commercial auto, workers compensation, business owners and specialty coverages.
Prerequisite: INS 39001 with a grade of C (2.000) or better.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49010 LIFE AND HEALTH INSURANCE LAW, FINANCE AND RISK MANAGEMENT 3 Credit Hours
Explores enterprise risk management, life and health insurance regulation and legal principles, and the financial operations of life and health insurers. The structure and analysis of life and health insurance contracts are also covered as well as how to buy life insurance. Annuities and IRAs are explained and then contrasted and compared to life insurance products.
Prerequisite: INS 29000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49011 PROPERTY AND CASUALTY INSURANCE LAW, FINANCE AND RISK MANAGEMENT 3 Credit Hours
Explores enterprise risk management, property and casualty insurance regulation and legal principles, and the financial operations of property and casualty insurers. The structure and analysis of property and casualty insurance contracts are also covered. Additionally, crime insurance and surety bonds are explained as are the societal impacts of auto accident injuries.
Prerequisite: INS 29000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49020 LIFE AND HEALTH INSURANCE OPERATIONS (WIC) 3 Credit Hours
Offers a detailed study of the strategic and tactical operations of life and health insurance industry players. It explores the roles of insurers as well as their key functional areas including underwriting, marketing, distribution, claims management and rate making. Corporate finance and both GAAP and SAAP accounting are studied as is the preparation and analysis of life and health statutory annual financial statements. Life and health reinsurance and regulation are also explored.
Prerequisite: INS 49010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

INS 49021 PROPERTY AND CASUALTY INSURANCE OPERATIONS (WIC) 3 Credit Hours
Offers a detailed study of the strategic and tactical operations of property and casualty insurance industry players. Explores the roles of insurers as well as their key functional areas including underwriting, marketing, distribution, claims management and rate making. Corporate finance and both GAAP and SAAP accounting are studied as is the preparation and analysis of property and casualty statutory annual financial statements. Property and casualty reinsurance and regulation are also explored.
Prerequisite: INS 49011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

INS 49030 LIFE INSURANCE 3 Credit Hours
An in-depth study of life insurance and its impact on individuals and society. Students gain a strong understanding of life insurer operations (including compliance, rate making, underwriting, claims and distribution), life insurance products and policy contracts. They also learn how these products protect people and businesses against the financial losses resulting from death or disability.
Prerequisite: INS 49020 with a minimum grade of C (2.000).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49031 HEALTH INSURANCE 3 Credit Hours
An in-depth study of health insurance and its impact on individuals and society. Students gain a strong understanding of health insurer operations (including compliance, rate making, underwriting, claims and distribution), health insurance products and policy contracts. Both individual and group products are examined. Students also learn how health insurance products protect people and businesses against the financial losses related to sickness and accidents.
Prerequisite: INS 49020 with a minimum grade of C (2.000).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

INS 49032 ADVANCED TOPICS IN LIFE AND HEALTH INSURANCE 3 Credit Hours
Investigates selected topics in life and health insurance either not covered, or not in depth, in other life and health insurance courses within the insurance studies degree program. This includes ICD, CPT and Level II coding systems and the nomenclature, language and terms used in medical billing environments. Students also learn about OSHA, HIPAA, PPACA, electronic medical records and other current topics relevant to health insurance compliance, underwriting and claim functions. Additionally, contemporary topics relevant to both life and health insurance are addressed to ensure students are up to date on the industry's most current challenges and opportunities 000)
Prerequisite: INS 49030 and 49031 both with a minimum grade of C (2.)
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
INS 49041 PERSONAL LINES PROPERTY AND CASUALTY INSURANCE  
3 Credit Hours  
Covers all property and casualty personal lines of insurance including automobile, homeowners and other residential policies. Also examined are watercraft, RV, mobile home and personal umbrella products. Also explores personal lines profitability, pricing and portfolio management.  
Prerequisite: INS 49021 with a minimum grade of C (2.00).  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

INS 49042 COMMERCIAL LINES PROPERTY AND CASUALTY INSURANCE  
3 Credit Hours  
Covers all property and casualty commercial lines of insurance including building and personal property and causes of loss forms, business income insurance, crime, equipment breakdown, aviation, marine and ocean cargo. Also covers commercial general liability, business auto, garage and motor carrier products, workers compensation and employers liability, environmental, cyber and terrorism insurance along with management and professional liability and business owners (BOP) policies. The factors affecting rates for these products are also explored.  
Prerequisite: INS 49021 with a minimum grade of C (2.00).  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

INS 49043 ADVANCED TOPICS IN PROPERTY AND CASUALTY INSURANCE  
3 Credit Hours  
Investigates selected topics in property and casualty insurance either not covered, or not covered in depth, in other property and casualty insurance courses within the insurance studies degree program. This includes E&S, RPGs, Catastrophic coverages, as well as insurance agency operations, reinsurance and technology. Medical coding nomenclature, language and terms are also explored. Additionally, contemporary topics relevant to property and casualty insurance are addressed to ensure students are up to date on the industry's most current challenges and opportunities.  
Prerequisite: INS 49041 and 49042 with a minimum grade of C (2.00).  
Schedule Type: Lecture  
Contact Hours: 3 lecture  
Grade Mode: Standard Letter  

INS 49092 INSURANCE PRACTICUM GENERAL (ELR)  
3 Credit Hours  
(Repeatable for credit 2 times) Requires an on-site internship and/or project with a life and/or health insurance related organization approved by the Instructor.  
Prerequisite: INS 49010 and 49020 both with a minimum grade of C (2.00); and special approval.  
Schedule Type: Practicum or Internship  
Contact Hours: 21 other  
Grade Mode: Satisfactory/Unsatisfactory-IP  
Attributes: Experiential Learning Requirement  

INS 49292 LIFE AND HEALTH INSURANCE PRACTICUM (ELR)  
3 Credit Hours  
(Repeatable for credit 2 times) Requires an on-site internship and/or project with a life and/or health insurance related organization approved by the Instructor.  
Prerequisite: INS 49010 and 49020 both with a minimum grade of C (2.00); and special approval.  
Schedule Type: Practicum or Internship  
Contact Hours: 21 other  
Grade Mode: Satisfactory/Unsatisfactory-IP  
Attributes: Experiential Learning Requirement  

Mechanical Engineering and Related Technology (MERT)  
MERT 12000 ENGINEERING DRAWING  
3 Credit Hours  
Engineering drawing principles and techniques: orthographic projection, sketching, sections, auxiliary views, dimensioning and conventional practices.  
Prerequisite: None.  
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab  
Contact Hours: 2 lecture, 2 lab  
Grade Mode: Standard Letter  

MERT 12001 COMPUTER-AIDED DESIGN  
3 Credit Hours  
Introduces 3D modeling techniques to design and draft mechanical components and assemblies.  
Prerequisite: MERT 12000.  
Schedule Type: Combined Lecture and Lab  
Contact Hours: 2 lecture, 2 lab  
Grade Mode: Standard Letter  
Attributes: CTAG Mechanical Engineering Technology, TAG Engineering Technology  

MERT 12004 MANUFACTURING PROCESSES  
3 Credit Hours  
Introduces students to the various manufacturing processes such as extrusion, molding, forging, casting, stamping, piercing, joining and finishing. Investigates the various ways parts are made from the vast array of materials available.  
Prerequisite: none.  
Schedule Type: Combined Lecture and Lab  
Contact Hours: 2 lecture, 2 lab  
Grade Mode: Standard Letter  
Attributes: CTAG Mechanical Engineering Technology, TAG Engineering Technology  

MERT 12005 PROPERTIES OF MATERIALS  
3 Credit Hours  
Covers the chemical and physical properties of engineering materials such as metals (ferrous and non-ferrous), polymers, ceramics and composites. Students learn the mechanical and physical properties of materials, and the effects that manufacturing processes have on the material's properties.  
Prerequisite: none.  
Schedule Type: Combined Lecture and Lab  
Contact Hours: 2 lecture, 2 lab  
Grade Mode: Standard Letter  
Attributes: TAG Engineering Technology
MERT 21096  INDIVIDUAL INVESTIGATION IN MECHANICAL ENGINEERING TECHNOLOGY  1-4 Credit Hours
(Repeatable for credit) Independent, in depth research of a mechanical engineering technology topic supervised and coordinated by an engineering technology faculty member.
Prerequisite: Permission.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter

MERT 22003  COMPUTER-AIDED TOOL DESIGN  3 Credit Hours
Tool design practices and procedures including materials, commercial standards, cutting tools, drill jigs, fixtures, dies and gauges using computer-aided design.
Prerequisite: MERT 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MERT 22004  MECHANICS AND MACHINE DESIGN  3 Credit Hours
Machine design procedures including static and dynamic stresses, stress concentrations, design considerations. Design of keys, pins, fasteners, welds, power transmission devices and related components.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MERT 22005  STATICS  3 Credit Hours
Basic vector mechanics, calculation of reactions from applied forces, drawing free body diagrams, working with equations of equilibrium, analysis of simple structures, calculating mass properties and forces due to friction.
Prerequisite: None.
Corequisite: MATH 19002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 22007  STRENGTH OF MATERIALS  3 Credit Hours
Covers taking the stresses induced into members due to applied loading, and coupled with mass properties of the sections, designing members to safely carry the loads. Types of stresses considered are tensile, compressive, shear, bending, torsional and combined.
Prerequisite: MERT 22005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 22009  ENGINEERING TECHNOLOGY PROJECT  2 Credit Hours
A practical, hands-on experience which emphasizes the integration of analytical and design skills acquired in companion courses. Students will work in teams under direct faculty supervision. Engineering communication such as reports and oral presentations are covered. The capstone design projects include creative and challenging projects within the engineering discipline.
Prerequisite: EERT 22014.
Schedule Type: Lecture
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

MERT 22012  FLUID POWER  3 Credit Hours
Fluid properties, kinematics of fluid flow, momentum, viscosity, conservation of energy in fluid flow, industrial hydraulics and gas laws.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

MERT 22095  SPECIAL TOPICS IN MECHANICAL ENGINEERING TECHNOLOGY  1-3 Credit Hours
(Repeatable for credit) Special topics in mechanical engineering technology.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

MERT 42000  THERMODYNAMICS FOR ENGINEERING TECHNOLOGY  3 Credit Hours
Includes the study of the first and second laws of thermodynamics with a detailed study of various types of heat engines. Additional topics include principles of heat transfer and energy management.
Prerequisite: PHY 13001 and 13002 or PHY 13011 and 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MERT 43001  DYNAMICS FOR ENGINEERING TECHNOLOGY  3 Credit Hours
Kinematics and kinetics of particles; Newton's laws; energy and momentum methods; system of particles; kinematics and kinetics of planar motions of rigid bodies; plane motion of rigid bodies; mechanical vibrations.
Prerequisite: PHY 13002 or PHY 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MERT 43092  ENGINEERING TECHNOLOGY PRACTICUM (ELR)  1-3 Credit Hours
(Repeatable for a maximum to 6 credit hours) Supervised work experience. One credit hour for 50 work hours.
Prerequisite: none.
Schedule Type: Practicum or Internship
Contact Hours: 3.33-10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

Manufacturing Engineering Technology (MFGT)

MFGT 12010  SAFETY IN THE WORKPLACE  2 Credit Hours
Topics include Ohio general industry safety requirements. Discussion will include all workshops and factories, metal casting, steel mills, and rubber and plastic industries.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
MFGT 13001 COMPUTER NUMERICAL CONTROL PROGRAMMING 3 Credit Hours
Prerequisite: MERT 12000 and MERT 12004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MFGT 21001 STANDARD DESIGN PRACTICE FOR MANUFACTURING TECHNOLOGY 3 Credit Hours
Analysis of fundamental machine design components. Discussion will include keys, fasteners, pulleys, gears, chains, bearings, power transmission equipment and associated topics.
Prerequisite: EERT 22002 and MERT 12001 and MERT 12005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MFGT 22014 ADVANCED INDUSTRIAL ELECTRONICS 3 Credit Hours
Advanced course in PLC program design and implementation. Emphasis on Boolean logic. Project definition and completion.
Prerequisite: EERT 22013.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MFGT 23001 COMPUTER-AIDED MANUFACTURING 3 Credit Hours
Theory and application of computer-aided manufacturing. Generation of CNC code using CAM applications both from CAD drawings and directly from CAM package.
Prerequisite: MFGT 13001 and MERT 12001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Nursing Technology (NRST)

NRST 10001 FOUNDATIONS OF NURSING AGENCY 5 Credit Hours
Development of basic nursing skills and physical assessment. The student will begin implementation of the nursing process using universal self-care requisites as an organizational framework.
Prerequisite: nursing technology (NRST) major and admission to technical study.
Schedule Type: Clinic, Combined Lecture and Lab
Contact Hours: 2 lecture, 4.67 lab, 4.33 other
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree

NRST 10003 NURSING AGENCY I 6 Credit Hours
Emphasizes broad concepts common to nursing practice. Increasingly complex skills are introduced. Care focuses on simple therapeutic self-care demands.
Prerequisite: Prerequisites: Minimum C grade in BSCI 11010 and NRST 10001 and UC 10097: and CHEM 10055 or CHEM 10050: and a minimum 2.000 cumulative GPA; and nursing technology (NRST) major. Minimum C grade in BSCI 11010 and NRST 10001 and UC 10097: and CHEM 10055 or CHEM 10050: and a minimum 2.000 cumulative GPA; and nursing technology (NRST) major.
Schedule Type: Clinic, Combined Lecture and Lab
Contact Hours: 3.5 lecture, 3 lab, 4.5 other
Grade Mode: Standard Letter
Attributes: CTAG Nursing/Associate Degree

NRST 10006 LPN TO ASSOCIATE DEGREE IN NURSING TRANSITION 3 Credit Hours
Course is designed for the LPN's advanced placement to the nursing program. It includes content areas from all first year nursing courses and will have both a theory and a campus lab. Orem's theory is introduced emphasizing the assessment of the client's self-care assets and self-care deficits.
Prerequisite: minimum 2.700 cumulative GPA; and nursing technology (NRST) major; and admission to technical study.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

NRST 10008 PARAMEDIC TO ASSOCIATE DEGREE IN NURSING TRANSITION 5 Credit Hours
Serves to validate prior learning, update and enhance the student's knowledge, begin the process of role transition, and prepare the student for advanced placement into the ADN program.
Prerequisite: minimum 2.700 cumulative GPA; and nursing technology (NRST) major; and admission to technical study.
Schedule Type: Clinic, Lecture
Contact Hours: 3.5 lecture, 1.83 lab, 2.67 other
Grade Mode: Standard Letter

NRST 10009 BASIC PRINCIPLES OF PHARMACOLOGY 2 Credit Hours
Identify and apply the basic principles of pharmacology to client care. Explore pharmaceutics, pharmacokinetics, pharmacodynamics, pharmacology-related math, drug classification, and safe preparation and administration of medications. D.N.) (NRST), Nursing (B.S.E.) (NURS), Occupational Therapy Assistant Technology (OCAT), Physical Therapist Assistant Technology (PTST), Radiologic Technology (RADT) or Respiratory Therapy Technology (RTT) major or permission of instructor.
Prerequisite: Nursing (A.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

NRST 10010 THERAPEUTIC USE OF SELF 1 Credit Hour
Focus is on the self-care of individuals with emphasis on understanding human relationships in the promotion of self-care. Culture, values and past experiences as factors in communication are explored.
Prerequisite: NRST 10001 with a minimum grade of C (2.000); admission to the nursing technology (NRST) major; and minimum 2.000 cumulative GPA.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
NRST 20205  PSYCHOSOCIAL SELF CARE DEFICITS  3 Credit Hours
Focus is on providing mental health nursing care utilizing the nursing
process for the emotionally ill client, family, and community with
psychiatric mental health needs. Emphasis is placed on understanding
holistic human needs and promotion of the professional therapeutic
nurse-client relationship.
Prerequisite: NRST 10003; and NRST 10010; and PSYC 11762; and
NUTR 23511 or NURT 33512; and BSCI 11020 all with minimum C grades;
and 2.000 overall GPA; and Nursing ADN major.
Schedule Type: Clinic, Laboratory, Lecture
Contact Hours: 2 lecture, .333 lab, 2.667 other
Grade Mode: Standard Letter

NRST 20206  NURSING AGENCY II  5 Credit Hours
Nursing care of adults with intermediate therapeutic self-care demands.
Emphasis is placed on the nurse as a provider of care.
Prerequisite: BSCI 11020; and BSCI 20021; and NRST 10003; and
NRST 10010; and PSYC 11762; and NUTR 23511 or NUTR 33512 all with
a minimum C grade; and minimum 2.000 cumulative GPA; and Nursing
ADN major.
Schedule Type: Clinic, Laboratory, Lecture
Contact Hours: 2.5 lecture, 1.5 lab, 6 other
Grade Mode: Standard Letter

NRST 20207  PSYCHOSOCIAL SELF-CARE DEFICITS  4 Credit Hours
Focus is on providing mental health nursing care utilizing the nursing
process for the emotionally ill client, family, and community with
psychiatric mental health needs. Emphasis is placed on understanding
holistic human needs and promotion of the professional therapeutic
nurse-client relationships.
Prerequisite: minimum C grade in NRST 10003 and NUTR 33512
and PSYC 11762; and minimum 2.000 cumulative GPA; and nursing
technology (NRST) major.
Schedule Type: Clinic, Lecture
Contact Hours: 3 lecture, .333 lab, 2.667 other
Grade Mode: Standard Letter

NRST 20208  NURSING AGENCY III  6 Credit Hours
Nursing care of individuals with complex therapeutic self-care demands.
Emphasis is placed on the nurse as provider and manager of patient care.
Prerequisite: minimum C grade in NRST 20205 and NRST 20206
and NURS 20950; and minimum 2.000 cumulative GPA; and nursing
technology (NRST) major.
Schedule Type: Clinic, Combined Lecture and Lab
Contact Hours: 3 lecture, .5 lab, 8.5 other
Grade Mode: Standard Letter

NRST 20209  MATERNAL/NEWBORN DEVELOPMENT SELF-CARE  2
Credit Hours
Nursing care of the expectant and newly-delivered family. The
nursing approach acknowledges the mother's self-care abilities and
dependent care agent role. Health deviations related to childbearing are
incorporated.
Prerequisite: NRST 10003; and NRST 10010; and BSCI 11020; and
BSCI 20021; and PSYC 11762; and NURS 20950; and NUTR 23511
or NUTR 33512; and cumulative GPA of 2.000 or higher; and nursing
technology (NRST) majors.
Schedule Type: Clinic, Laboratory, Lecture
Contact Hours: 1 lecture, 3 other
Grade Mode: Standard Letter

NRST 20210  CHILD AND FAMILY DEVELOPMENT SELF-CARE  2
Credit Hours
Family-centered nursing care of children. Developmental self-care
requisites and common health deviations are emphasized.
Prerequisite: minimum C grade in NRST 20205 and NRST 20206 and
NURS 20950; and minimum 2.000 cumulative GPA.
Schedule Type: Clinic, Combined Lecture and Lab
Contact Hours: 1 lecture, .4 lab, 2.6 other
Grade Mode: Standard Letter

NRST 21095  SPECIAL TOPICS  2-4 Credit Hours
(Repeatable for credit)Scheduled topic of interest to students and faculty.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter

NRST 21096  INDIVIDUAL INVESTIGATION IN NURSING  1-3 Credit
Hours
(Repeatable for a total of 18 hours) Readings and/or investigation of
nursing topics supervised by nursing faculty.
Prerequisite: special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Satisfactory/Unsatisfactory

Occupational Therapy Asst Technology (OCAT)

OCAT 10000  FOUNDATIONS IN OCCUPATIONAL THERAPY  2 Credit
Hours
Introduction to basic theoretical concepts, professional development,
profession of occupational therapy, its place in the health care system,
and the role and function of the Occupational Therapist and Occupational
Therapist Assistant.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

OCAT 10001  OCCUPATIONAL THERAPY PRACTICE SKILLS II  3
Credit Hours
Development of the OT practice skills in therapeutic use of occupation,
including crafts, activity analysis, and basic documentation.
Prerequisite: OCAT 10003 with minimum C grade.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OCAT 10002  THERAPEUTIC TECHNIQUES I - PSYCHOSOCIAL  4
Credit Hours
Application of occupational therapy skills and techniques in treatment
programs, concerned with psychosocial dysfunction.
Prerequisite: OCAT 10003 with a minimum grade of C (2.000).
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter
OCAT 10003  OCCUPATIONAL THERAPY PRACTICE SKILLS
LABORATORY  1 Credit Hour
Development of basic assessment and intervention skills as related to clients with physical and mental disabilities.
Prerequisite: occupational therapist assistant technology (OCAT) majors; and admission to technical study.
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

OCAT 10004  OCCUPATIONAL THERAPY ASSISTANT TERMINOLOGY
1 Credit Hour
An introduction to key terms utilized in occupational therapy and rehabilitation settings. emphasis is on increasing professional understanding of occupational therapy terminology including related medical terminology found in professional documentation. Student is introduced to Occupational Therapy Practice Framework terminology.
Prerequisite: occupational therapy assistant technology (OCAT) major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OCAT 10010  PROFESSIONALISM IN HEALTHCARE  1 Credit Hour
Provides information concerning professional behaviors, character traits, work ethics and communication skills that OTAs will need as they interact with other healthcare professionals. Students need to understand the importance of being professional, competent, ethical and legal.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OCAT 10092  THERAPEUTIC TECHNIQUES - FIELDWORK 1A (ELR)  1 Credit Hour
Under the supervision of personnel in selected facilities or agencies, the student will apply knowledge, skills and techniques acquired in the concurrent OCAT therapeutic technique courses. 000)
Prerequisite: OCAT 10003 with a minimum grade of C (2).
Schedule Type: Practicum or Internship
Contact Hours: 5.6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

OCAT 12000  OCCUPATIONAL THERAPY LICENSURE PREPARATION
1 Credit Hour
This course will inform students on how to prepare for their national certification exam and apply for licensure in preparation for practice as occupational therapy assistants. Content will include a brief review of OT concepts and theories, test taking and study strategies, and practice of simulated exam questions. Prerequisites: OCAT 20006
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OCAT 20000  THERAPEUTIC TECHNIQUES II - PHYSICAL DYSFUNCTION I  4 Credit Hours
Application of occupational therapy skills and techniques in treatment programs, specifically concerned with physical dysfunctions.
Prerequisite: Minimum grade of C (2.000) in OCAT 10001 and OCAT 10002.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

OCAT 20001  OCCUPATIONAL THERAPY MANAGEMENT AND LEADERSHIP SKILLS  2 Credit Hours
Introduction to management and leadership issues in occupational therapy practice, including ethics, licensure, reimbursement related to practice settings, research and skills required for performance of administrative tasks in an occupational therapy department.
Prerequisite: OCAT 10002.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

OCAT 20003  OCCUPATIONAL THERAPY PRACTICE SKILLS III  3 Credit Hours
Development of the occupational therapy practice skills including therapeutic use of occupation, leisure, adapting equipment and environment, therapeutic exercises, activity analysis and documentation.
Prerequisite: OCAT 10001 and OCAT 10002.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OCAT 20004  THERAPEUTIC TECHNIQUES III - DEVELOPMENTAL DISABILITIES  3 Credit Hours
Application of occupational therapy skills and techniques applied to patients/clients with developmental disabilities.
Prerequisite: OCAT 20000.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OCAT 20006  THERAPY TECHNIQUES IV-PHYSICAL DYSFUNCTION II  3 Credit Hours
Continued application of occupational therapy skills and techniques in treatment programs in the area of physical dysfunction.
Prerequisite: minimum grade of C (2.000) OCAT 10002 and OCAT 20000.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

OCAT 20092  THERAPEUTIC TECHNIQUES - FIELDWORK 1B (ELR)  1 Credit Hour
Under the supervision of personnel in selected healthcare facilities or agencies, the student will apply knowledge, skills, and techniques acquired in the concurrent OCAT therapeutic techniques course.
Prerequisite: OCAT 10000 and OCAT 10002.
Corequisite: OCAT 20000.
Schedule Type: Practicum or Internship
Contact Hours: 5.6 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

OCAT 20192  CLINICAL APPLICATIONS I  4 Credit Hours
Under the supervision of personnel in selected healthcare agencies, the student will apply knowledge, skills and techniques acquired in prior OCAT courses.
Prerequisite: OCAT 10000 and 10001 and 10002 and 20000 and 20001 and 20003 and 20006 all with grade of "C" or better.
Schedule Type: Field Experience
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory
OCAT 20292  CLINICAL APPLICATIONS II  4 Credit Hours
Under the supervision of personnel in selected healthcare agencies, the
student will apply knowledge, skills and techniques acquired in prior
OCAT courses.
Prerequisite: OCAT 10000, OCAT 10001, OCAT10002, OCAT 20000,
OCAT 20001, OCAT 20003 and OCAT 20006.
Schedule Type: Practicum or Internship
Contact Hours: 20 other
Grade Mode: Satisfactory/Unsatisfactory

OCAT 21095  SPECIAL TOPICS IN OCCUPATIONAL THERAPIST
ASSISTANT TECHNOLOGY  1-4 Credit Hours
(Repeatable maximum 6 times for credit) Special topics in Occupational
Therapy Assistant Technology; topics announced when scheduled.
Prerequisite: OCAT 10003.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

Office Technology (OTEC)

OTEC 16620  WORD PROCESSING I  3 Credit Hours
Builds expertise in creating business documents applying the basic
features of popular word processing software. Emphasis on hands on
experience.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16621  WORD PROCESSING II  3 Credit Hours
Design and create documents by using advanced features of word
processing software.
Prerequisite: OTEC 16620.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16625  BUSINESS PRESENTATIONS  3 Credit Hours
Development and production of professional computer-projected
presentation materials using popular software. Includes use of graphic
design techniques, color layout design principles and transparencies.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16638  GOOGLE APPLICATIONS FOR ADMINISTRATIVE
PROFESSIONALS  3 Credit Hours
Introduction to Google Applications. Students will learn to create, modify
and manage the various Google Applications; utilize Google Drive; and
learn to apply Google Application skills in the work environment and for
personal use.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16639  DATABASE APPLICATIONS  3 Credit Hours
Concepts, terminology and use of current database software to manage
and retrieve business information. Emphasis on hands-on experiences.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16640  ADVANCED DATABASE APPLICATIONS  3 Credit Hours
Provides the student with the skills and knowledge on creating advanced
queries, forms and reports. Students learn how to customize, automate
and secure the database structure.
Prerequisite: OTEC 16639 and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 16680  COMPUTER KEYBOARDING  1 Credit Hour
Basic keyboarding course using computers for students having no
previous keyboarding instruction or a speed of less than 30 words a
minute. To pass the course students must keyboard above 30 words a
minute for three minutes with no more than three errors.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OTEC 26611  SPREADSHEET APPLICATIONS  3 Credit Hours
Use of electronic spreadsheets from beginning to advanced applications
that may prepare for software certification.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26622  DESKTOP PUBLISHING I  3 Credit Hours
Study and application of the principles of proper document design using
high-end desktop publishing software for newsletters, brochures, reports,
forms and other computer-based business documents.
Prerequisite: OTEC 16620.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTEC 26623  DESKTOP PUBLISHING II  3 Credit Hours
High-end layout design and illustration software. Includes advanced
document, Web publishing, makeovers, computer graphic concepts and
formatting, image editing techniques and the use of color.
Prerequisite: OTEC 26622.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
OTECH 26635  ADMINISTRATIVE RESOURCE MANAGEMENT  3 Credit Hours
Explores how office professionals can apply resource management skills to the areas of space/workflow, forms, budgetary control, staff and materials supplies.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTECH 26636  PROJECT MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS  1 Credit Hour
Provides the basic tools needed to effectively manage projects and to automate and streamline such functions as resource allocation, work scheduling and communication. Project management software is used in the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

OTECH 26638  BUSINESS COMMUNICATIONS  3 Credit Hours
Theory and application of oral and written business communication with emphasis on business letters, reports, employment process, visual presentations and electronic communications. Basic word processing skills are suggested.
Prerequisite: ENG 11011 or HONR 10197.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTECH 26640  CURRENT TECHNOLOGIES  3 Credit Hours
Current trends and technology for the marketplace from an end user perspective.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTECH 26650  MEDICAL BILLING PROCEDURES  3 Credit Hours
Introductory course in the preparation of various medical documents and forms in the health care industry. Use of computers and various word processing software is included. This course requires a 30 clock hour internship.
Prerequisite: OTECH 26655; and OTECH 26656.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTECH 26655  ICD CODING  3 Credit Hours
Basic medical coding using the current version of the ICD classification system and nomenclature.
Prerequisite: OTECH 26651 or HED 14020.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTECH 26656  CPT CODING  3 Credit Hours
Introduction to coding rules for the CPT and Level II coding systems, incorporating and applying ICD rules to code patient services.
Prerequisite: OTECH 26655.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

OTECH 26691  SEMINAR FOR ADMINISTRATIVE PROFESSIONALS  3 Credit Hours
Refines job search strategies, integrates coursework with realistic office settings, presents interpersonal and ethical issues, provides outreach activities, and emphasizes career management.
Prerequisite: Sophomore standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

OTECH 26692  INTERNSHIP FOR ADMINISTRATIVE PROFESSIONALS (ELR)  1 Credit Hour
(Repeatable for a maximum of 4 credit hours) Supervised field experience of ten hours per week paid or seven hours per week unpaid in a business environment functioning as an administrative professional.
Prerequisite: Sophomore standing and 2.000 GPA or better in major and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 7 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

OTECH 26695  SPECIAL TOPICS IN INFORMATION TECHNOLOGY FOR ADMINISTRATIVE PROFESSIONALS  1-3 Credit Hours
(Repeatable for credit) Special topics in information technology topics for administrative professionals.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

OTECH 26696  INDIVIDUAL INVESTIGATION:INFORMATION TECHNOLOGY FOR ADMINISTRATIVE PROFESSIONALS  1-3 Credit Hours
(Repeatable for credit) Independent, in-depth research of an office technology topic supervised and coordinated by a program faculty member.
Prerequisite: 12 credit hours of OTECH courses and special approval from a full-time office technology faculty member.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Physical Therapist Assist Tech (PTST)

PTST 10000  INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT  1 Credit Hour
Introduces the physical therapy profession; current and historical physical therapist practice; and the role, responsibilities and expectations of a Physical Therapist Assistant.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
PTST 10001  PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY  4 Credit Hours
Students develop an understanding of the underlying principles of basic physical therapy procedures and the applications of these concepts in the physical therapy setting.
Prerequisite: physical therapist assistant technology (PTST) major and admission to technical study.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 10002  ANALYSIS OF MOVEMENT  4 Credit Hours
Function of the human body with emphasis on the musculoskeletal system. Gross body measurements.
Prerequisite: Physical therapist assistant technology (PTST) major and admission to technical study.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 10003  CLINICAL CONDITIONS I  2 Credit Hours
Introduction to the pathology, treatment and clinical implications for medical conditions commonly encountered in PT practice: Integumentary, cardiovascular, pulmonary, endocrine and digestive systems.
Prerequisite: physical therapist assistant technology (PTST) major and admission to technical study.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 10004  PHYSICAL THERAPY PROCEDURES I  4 Credit Hours
Theory and techniques of treatment procedures with emphasis on modalities. Maintenance of equipment and supplies.
Prerequisite: physical therapist assistant technology (PTST) major and admission to technical study.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 10010  TRANSITIONS IN PHYSICAL THERAPY  8 Credit Hours
Validates prior learning in the course content of PTST 10002, 10004, 20003, 20004; builds knowledge necessary for the physical therapist assistant technology (PTST) degree; and prepares students who have previously completed an approved allied health program for advanced placement in PTST. Students successfully completing this course with a grade of C (2.000) or better will receive six (6) transfer credit hours.
Prerequisite: Physical Therapist Assistant Technology Athletic Trainers Transitions concentration (PTST-ATT) and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7 lecture, 3 lab
Grade Mode: Standard Letter

PTST 11092  CLINICAL EDUCATION I (ELR)  1 Credit Hour
Observes and participate in providing selected physical therapy services under the direct supervision of a licensed PT or PTA.
Prerequisite: PTST 11005, and physical therapist assistant technology (PTST) major, and admission to technical study.
Schedule Type: Practicum or Internship
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PTST 20001  THERAPEUTIC COMMUNICATIONS IN PHYSICAL THERAPY  1 Credit Hour
Focus on understanding human behavior. Emotional needs of individuals. Therapeutic use of self. Development of communication skills and interpersonal relationships.
Prerequisite: physical therapist assistant technology (PTST) major and admission to technical study.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

PTST 20004  PHYSICAL THERAPY PROCEDURES II  4 Credit Hours
Basic principles, therapeutic effects and techniques of therapeutic exercises used in Physical Therapy practice.
Prerequisite: PTST 10002; and admission to the Physical Therapist Assistant Technology major and admission to technical study.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 20006  PHYSICAL REHABILITATION PROCEDURES  4 Credit Hours
Principles and techniques of therapeutic interventions for rehabilitation in physical therapy practice.
Prerequisite: PTST 20004 and BSCI 11020; and physical therapist assistant technology (PTST) major and admission to technical study.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 3 lab
Grade Mode: Standard Letter

PTST 20008  CLINICAL CONDITIONS III  2 Credit Hours
Discussion of neurological pathologies across the lifespan, treatment of the medically complex patient and functional testing for the geriatric patient.
Prerequisite: physical therapist assistant technology (PTST) major and admission to technical study.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
PTST 21095  SPECIAL TOPICS IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY  1-4 Credit Hours
(Repeatable maximum 6 times for credit) Special topics in Physical Therapist Assistant Technology; topics announced when scheduled.
Prerequisite: physical therapist assistant technology (PTST) major.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

PTST 21096  INDIVIDUAL INVESTIGATION IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY  1-3 Credit Hours
(Repeatable maximum 6 times for credit) Individual study in physical therapist assistant technology and related fields; open to PTST majors.
Prerequisite: physical therapist assistant technology (PTST) major.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter

PTST 22005  PHYSICAL THERAPY PRACTICE II  2 Credit Hours
Understand the current professional, legal, and regulatory implications in the provision of PT services.
Prerequisite: PTST 11005; and physical therapist assistant technology (PTST) major; and admission to technical study.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 22007  PHYSICAL THERAPY PRACTICE III  2 Credit Hours
Preparation for licensure, employment and career development as a physical therapist assistant.
Prerequisite: physical therapist assistant technology (PTST) major and admission to technical study.
Schedule Type: Seminar
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 22010  TRANSITIONS TO PHYSICAL THERAPY PRACTICE  2 Credit Hours
Athletic Trainers transitioning to physical therapy practice prepare for employment and licensure. Explores reimbursement regulations, evidence based practice, and various topics related to health care systems, and discuss current topics in the practice of physical therapy.
Prerequisite: special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

PTST 22092  CLINICAL EDUCATION PRACTICUM II (ELR)  2 Credit Hours
Provide physical therapy services under the direct supervision of a licensed PT or PTA.
Prerequisite: PTST 11005 with a minimum grade of C (2.000); and PTST 11092 with a grade of satisfactory; and admission to technical study.
Schedule Type: Practicum or Internship
Contact Hours: 10 other
Grade Mode: Satisfactory/Unsatisfactory
Attributes: Experiential Learning Requirement

PTST 22392  ATHLETIC TRAINING PLUS PHYSICAL THERAPIST ASSISTANT CLINICAL EDUCATION PRACTICUM (ELR)  4 Credit Hours
Provide physical therapy services of an entry-level physical therapist assistant, under the supervision of a licensed PT or PTA.
Prerequisite: PTST 11005 with a minimum grade of C (2.000); and PTST 11092; and special approval.
Corequisite: PTST 22010.
Schedule Type: Practicum or Internship
Contact Hours: 480 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

RIS 34001  INTRODUCTION TO DIAGNOSTIC MEDICAL SONOGRAPHY  1 Credit Hour
Provides an introduction to diagnostic medical sonography. The course orient new students to the profession. Topics covered include basic sonographic principles, scanning technique, and introduction patient management techniques.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 34003  RADIATION THERAPY PRINCIPLES AND PRACTICE I  3 Credit Hours
An overview of cancer, radiation therapy and its physical and technical aspects. Includes the roles/responsibilities of the therapist, treatment parameters, documentation and delivery of patient care, education and procedures.
Prerequisite: radiologic and imaging sciences (RIS) major.
Corequisite: RIS 34030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 34004  RADIATION THERAPY PATIENT MANAGEMENT  3 Credit Hours
Provides the basic concepts in patient assessment and evaluation. Includes communication skills, infection control, nutrition, medications, exams, emergencies, patient transfer techniques, medical ethics and law as applied to radiation therapy.
Prerequisite: radiologic and imaging sciences (RIS) major.
Corequisite: RIS 34030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
RIS 34008  RADIATION THERAPY PHYSICS I  3 Credit Hours
Introduction to radiation therapy physics, including the fundamentals of atomic structure, radiation properties, radiation production, radiation quality, interactions of radiation with matter and principles of radiation detectors.
Prerequisite: radiologic and imaging sciences (RIS) major.
Corequisite: RIS 34030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34030  RADIATION THERAPY CLINICAL EDUCATION I  1 Credit Hour
Observation and supervised clinical education with emphasis on administering radiation therapy treatments and patient care.
Prerequisite: radiologic and imaging sciences (RIS) major and special approval.
Schedule Type: Clinic, Laboratory
Contact Hours: 2.5 lab, 5 other
Grade Mode: Standard Letter-IP

RIS 34040  PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY  3 Credit Hours
Methods of patient management in diagnostic medical sonography are examined with emphasis on patient communication, clinical assessment, medical legal aspects, medical records, emergencies, pharmacology, safety issues, ethics and critical thinking.
Prerequisite: radiologic and imaging sciences (RIS) majors.
Corequisite: RIS 34045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34042  ABDOMINAL SONOGRAPHY I  3 Credit Hours
Anatomy, physiology and pathology of the abdomen; instrumentation and scanning techniques; normal and abnormal sonographic appearances of abdominal structures will be presented.
Prerequisite: radiologic and imaging sciences (RIS) major.
Corequisite: RIS 34045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34044  ULTRASOUND PHYSICS AND INSTRUMENTATION  3 Credit Hours
Ultrasound principles to include interaction of sound with matter, propagation of sound in tissue, physical units, transducer parameters, image storage and display, quality assurance, bioeffects, image artifacts and physical principles of doppler.
Prerequisite: radiologic and imaging sciences (RIS) major.
Corequisite: RIS 34045.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34045  ULTRASOUND CLINICAL EDUCATION I  2 Credit Hours
Provides clinical education and experience at a lab and clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols on patients and to identify image quality problems. Content includes sonography of the liver, gallbladder, pancreas and spleen.
Prerequisite: radiologic imaging science (RIS) major and special approval.
Schedule Type: Clinic, Laboratory
Contact Hours: 3 lab, 1 other
Grade Mode: Standard Letter-IP

RIS 34052  ABDOMINAL SONOGRAPHY II  3 Credit Hours
Continuation of RIS 34042; anatomy, physiology and pathology of the abdomen; instrumentation and sonographic scanning techniques; normal and abnormal sonographic appearance of abdominal structures will be presented.
Prerequisite: RIS 34042 and radiologic and imaging science (RIS) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34060  ULTRASOUND CLINICAL EDUCATION II  4 Credit Hours
Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols on patients and to identify image quality problems. Content includes sonography of the abdominal vessels, kidneys, adrenal glands, lymphatics and gynecologic pelvis.
Prerequisite: RIS 34045.
Corequisite: RIS 34052.
Schedule Type: Clinic, Laboratory
Contact Hours: 3 lab, 5 other
Grade Mode: Standard Letter-IP

RIS 34062  OBSTETRICS AND GYNECOLOGY SONOGRAPHY I  3 Credit Hours
Anatomy and pathophysiology of the non-pregnant female pelvis; instrumentation and scanning techniques; normal and abnormal sonographic appearances; and findings of the female reproductive tract are covered.
Prerequisite: RIS 34045 and radiologic and imaging sciences (RIS) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34065  ULTRASOUND CLINICAL EDUCATION III  1 Credit Hour
Provides clinical education and experience at clinical sites to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to evaluate image quality. Content includes first, second and third trimester obstetric sonography.
Prerequisite: RIS 34062.
Corequisite: RIS 44072.
Schedule Type: Clinic, Laboratory
Contact Hours: 1 lab, 8 other
Grade Mode: Standard Letter-IP
RIS 34082 SMALL PARTS SONOGRAPHY 1 Credit Hour
Anatomy and pathophysiology of superficial structures; instrumentation and scanning techniques; normal and abnormal sonographic appearances of superficial structures; correlation with laboratory findings and other imaging modalities are presented.
Prerequisite: RIS 34083 and radiologic and imaging sciences (RIS) major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 34083 SECTIONAL ANATOMY IN MEDICAL IMAGING 3 Credit Hours
Presentation of sectional anatomy of the body in the transverse (axial), sagittal and coronal planes as seen in medical images in CT, MRI and diagnostic medical sonography.
Prerequisite: BSCI 11010 and BSCI 11020; or BSCI 21010 and BSCI 21020; and radiologic and imaging sciences (RIS) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 34084 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I 2 Credit Hours
Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images.
Prerequisite: radiologic and imaging science (RIS) major and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 34086 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II 2 Credit Hours
Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images as seen in the extremities.
Prerequisite: RIS 34084 and radiologic and imaging science (RIS) majors.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 41095 SPECIAL TOPICS IN RADIOLOGIC AND IMAGING SCIENCES 1-3 Credit Hours
(Repeatable for credit) Courses will consist of various topics in medical imaging designed to enhance learning outcomes.
Prerequisite: Radiologic and imaging sciences (RIS) major.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter-IP

RIS 44000 INTRODUCTION TO RADIATION THERAPY 2 Credit Hours
An introduction to patient care techniques and clinical procedures for freshman entry students admitted to the RIS major in radiation therapy.
Prerequisite: RIS major
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44003 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION I 2 Credit Hours
Students observe and become acquainted with MRI equipment and procedures at the clinical education setting and apply knowledge of physics, MRI safety and patient care. Students begin to perform some procedures under direct supervision of MRI technologists. Students attend clinics 15 hours per week.
Prerequisite: Radiologic and imaging sciences (RIS) major; and special approval.
Schedule Type: Clinic, Laboratory
Contact Hours: 5 lab, 10 other
Grade Mode: Standard Letter-IP

RIS 44004 COMPUTED TOMOGRAPHY CLINICAL EDUCATION I 2 Credit Hours
Provides clinical education and experience at a clinical setting to allow the student the opportunity to become proficient in skills necessary to obtain quality images, to alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under direct supervision of a CT Technologist.
Prerequisite: Radiologic and imaging sciences (RIS) major; and special approval.
Schedule Type: Clinic, Laboratory
Contact Hours: 5 lab, 10 other
Grade Mode: Standard Letter-IP

RIS 44009 RADIATION THERAPY PRINCIPLES AND PRACTICE II 2 Credit Hours
Examines the multidisciplinary treatment approaches. Consists of advanced topics in therapy, chemotherapy, immunotherapy, and surgery for combined modalities, for benign conditions, for emergencies and for managing side effects.
Prerequisite: RIS 34003.
Corequisite: RIS 44053.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44018 RADIATION THERAPY PHYSICS II 3 Credit Hours
Continuation of the principles of radiation therapy physics and the study of photon beam dosimetry, electron beam dosimetry and treatment planning.
Prerequisite: RIS 34008.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 44021 PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY 2 Credit Hours
Provides knowledge about care-giving skills for patients undergoing CT exams. Information includes effective communication, problem-solving techniques, patient safety/comfort, patient preparation, monitoring, contrast agents and venipuncture.
Prerequisite: radiologic and imaging sciences (RIS) major.
Corequisite: RIS 44004.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
RIS 44025  COMPUTED TOMOGRAPHY (CT) CLINICAL EDUCATION I
3 Credit Hours
Provides clinical education at a clinical site so students can observe and become familiar with CT equipment and procedures, and apply knowledge of physics and patient care. Students begin to perform some CT procedures under direct supervision of CT technologists.
Prerequisite: radiologic and imaging sciences (RIS) major and special approval.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44027  COMPUTED TOMOGRAPHY (CT) CLINICAL EDUCATION II
3 Credit Hours
Continuation of RIS 44025. Students apply knowledge of physics, patient care, sectional anatomy and pathology in the performance of CT clinical competency exams. Students act more independently using critical thinking skills.
Prerequisite: RIS 44025.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44028  RADIATION THERAPY RADIOBIOLOGY
3 Credit Hours
Establishes a foundation in radiation biology for radiation therapy. Cell biology and its response to radiation are reviewed as well as the effect of radiation on pathology and body systems.
Prerequisite: RIS 44018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

RIS 44029  RADIATION THERAPY PATHOLOGY I
3 Credit Hours
General overview of various disease processes with emphasis on cancer types. Includes epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the head and neck, central nervous, respiratory, digestive, and female reproductive systems.
Prerequisite: RIS 34003 and 34083.
Corequisite: RIS 44053.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44030  PHYSICAL PRINCIPLES OF COMPUTED TOMOGRAPHY I
2 Credit Hours
Computer fundamentals, operations and applications of CT equipment. Principles of CT system operation and components, image processing and display and image quality.
Prerequisite: radiologic and imaging sciences (RIS) major.
Corequisite: RIS 44004.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

RIS 44031  PATIENT MANAGEMENT IN MAGNETIC RESONANCE IMAGING
2 Credit Hours
Provides information on the role of the MRI technologist in maintaining patient safety and comfort as well as personal and co-worker safety. MR contrast agents and venipuncture will be studied. Includes problem solving with diverse patient types.
Prerequisite: radiologic and imaging sciences (RIS) major.
Corequisite: RIS 44003.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44033  COMPUTED TOMOGRAPHY TECHNIQUES
1 Credit Hour
Integrates concepts of computed tomography including patient care, imaging procedures, physics and instrumentation in preparation for national certification examination in computed tomography.
Prerequisite: RIS 34004 and 44050 and 44047.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter-IP

RIS 44035  MRI CLINICAL EDUCATION I
3 Credit Hours
Students observe and become familiar with MRI equipment and procedures, and apply knowledge of physics, MRI safety and patient care. Students begin to perform some procedures under direct supervision of technologists.
Prerequisite: Radiologic and Imaging Sciences (RIS) major; and special approval.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44036  MRI CLINICAL EDUCATION II
3 Credit Hours
Continuation of RIS 44035. Students apply knowledge of physics, patient care, anatomy and pathology when performing clinical competency exams as well as quality assurance procedures. Some applications to special procedure exams.
Prerequisite: RIS 44035.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44037  MRI CLINICAL EDUCATION III
3 Credit Hours
Continuation of RIS 44036. Students use critical thinking skills in performing MRI exams in the clinical setting and solve problems in a more independent manner. Students complete all required clinical competency exams.
Prerequisite: RIS 44036.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44038  RADIATION THERAPY PHYSICS III
3 Credit Hours
Covers concepts of radioactivity and brachytherapy. Describes specialized treatment units. Discussion of human resource, therapy department budgets and billing, accreditation, certification, professional societies.
Prerequisite: RIS 44018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
RIS 44041  RADIATION THERAPY QUALITY MANAGEMENT  2 Credit Hours
Provides overview of quality management programs and continuing quality improvement in radiation therapy. Topics include validity of quality assurance checks, chart checks, image checks, testing on simulators, linear accelerators and brachytherapy sources.
Prerequisite: RIS 44018.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

RIS 44042  RADIATION THERAPY PATHOLOGY II  3 Credit Hours
Continuation of Radiation Therapy Pathology I to include epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the male reproductive, urinary, endocrine, circulatory, lymphatic, integumentary and musculoskeletal systems as well as pediatric solid malignancies.
Prerequisite: RIS 34083 and 44029.
Corequisite: RIS 44056.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44043  RADIATION THERAPY PRINCIPLES/PRACTICE III  3 Credit Hours
Review and testing of major subject areas from all radiation therapy courses to prepare students to successfully pass the national certification exam based on the content specifications from the American Registry of Radiologic Technologists (ARRT). Prerequisites: RIS 44009 and 44018 and 44028 and 44042.
Prerequisite: RIS 44013 and radiologic and imaging science (RIS) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44044  MAGNETIC RESONANCE IMAGING PROCEDURES I  2 Credit Hours
Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for all areas of the body except extremities and vascular areas.
Prerequisite: radiologic and imaging science (RIS) major.
Corequisite: RIS 44003.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44045  MAGNETIC RESONANCE IMAGING PROCEDURES II  2 Credit Hours
Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for the extremities and vascular areas.
Prerequisite: RIS 44044 and radiologic and imaging science (RIS) major.
Corequisite: RIS 44063.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44046  MAGNETIC RESONANCE IMAGING TECHNIQUES  1 Credit Hour
Integrates concepts of magnetic resonance imaging including patient care, imaging procedures, data acquisitions and processing as well as principles of image formation.
Prerequisite: special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 44047  COMPUTED TOMOGRAPHY PROCEDURES I  1 Credit Hour
Introduction to CT procedures with scanning protocols, positioning and non-contrast anatomy.
Prerequisite: radiologic and imaging science (RIS) major.
Corequisite: RIS 44004.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 44048  COMPUTED TOMOGRAPHY PROCEDURES II  2 Credit Hours
Overview of the procedures presented in CT Procedures I course, anatomy as seen on scans both with and without contrast media, advanced processing, and advanced imaging procedures. O Prerequisite: RIS 44047.
Prerequisite: special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44049  PHYSICAL PRINCIPLES OF COMPUTED TOMOGRAPHY II  1 Credit Hour
Image post processing, image quality, radiation dose in CT, 3-D CT imaging, virtual reality CT, Cardiac Scoring, Positron Emission Tomography and CT Scanners, Pediatric Imaging and Quality Assurance techniques are presented.
Prerequisite: RIS 44030.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 44051  MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I  2 Credit Hours
Develops and understanding of the physics of MR image acquisition and the hardware used. Provides information in the use and manipulation of the instrumentation and technical parameters used in the generation of images. Establishes safety procedures.
Prerequisite: radiologic and imaging science (RIS) major.
Corequisite: RIS 44003.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44052  MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II  2 Credit Hours
Develops an understanding of MR image acquisition and the hardware used. Provides information in the use and manipulation of the hardware and technical parameters used in the generation of images. Reviews safety special applications such as advanced imaging techniques. Enables the student to maximize MR image quality.
Prerequisite: RIS 44051 and radiologic and imaging science (RIS) majors.
Corequisite: RIS 44063.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
RIS 44053  RADIATION THERAPY CLINICAL EDUCATION II  3 Credit Hours
Continuation of Clinical Education I with emphasis on clinical practice of treatment techniques and planning.
Prerequisite: RIS 34003.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44054  COMPUTED TOMOGRAPHY CLINICAL EDUCATION II  2 Credit Hours
Provides continued clinical education and experience at a clinical setting to allow the student the opportunity to become proficient in skills necessary to obtain quality images, to alter protocols based on patient pathology or physical condition, and to identify image quality problems and to make appropriate corrections under direct supervision of a CT Technologist. Student attends clinical education setting for 15 hours per week for 15 weeks.
Prerequisite: RIS 44004.
Schedule Type: Clinic, Laboratory
Contact Hours: 5 lab, 10 other
Grade Mode: Standard Letter-IP

RIS 44055  ULTRASOUND CLINICAL EDUCATION IV  1 Credit Hour
Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Content includes sonography of superficial structures.
Prerequisite: RIS 340062.
Corequisite: RIS 340082.
Schedule Type: Clinic, Laboratory
Contact Hours: 1 lab, 8 other
Grade Mode: Standard Letter-IP

RIS 44056  RADIATION THERAPY CLINICAL EDUCATION III  1 Credit Hour
Continuation of Clinical Education II with added emphasis on critical thinking, problem solving and clinical competency.
Prerequisite: RIS 44053.
Schedule Type: Clinic, Laboratory
Contact Hours: 1 lab, 7 other
Grade Mode: Standard Letter-IP

RIS 44057  RADIATION THERAPY CLINICAL EDUCATION IV  1 Credit Hour
Continuation of Clinical Education III with added emphasis on critical thinking, problem solving and clinical competency. Students are assigned to clinical education site for approximately 24 hours per week.
Prerequisite: RIS 44056.
Schedule Type: Clinic, Laboratory
Contact Hours: 2.5 lab, 5 other
Grade Mode: Standard Letter-IP

RIS 44058  PHYSICAL PRINCIPLES OF COMPUTED TOMOGRAPHY II  2 Credit Hours
A continuation from Physical Principles of CT I, the course reviews basic CT components, operations and applications with advanced studies in post-processing techniques and image quality, while understanding the importance of radiation dose and quality control in CT.
Prerequisite: RIS 44030.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

RIS 44063  MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION II  2 Credit Hours
Continuation of MRI Clinical Education I. Students apply knowledge of patient care, anatomy and pathology, equipment and image acquisition when observing and performing MRI procedures clinically. Students attend the clinical education setting for 15 hours per week.
Prerequisite: RIS 44003.
Schedule Type: Clinic, Laboratory
Contact Hours: 5 lab, 10 other
Grade Mode: Standard Letter-IP

RIS 44065  ULTRASOUND CLINICAL EDUCATION V  4 Credit Hours
Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Content includes abdominal, pelvic, obstetrical, superficial structure and vascular sonography.
Prerequisite: RIS 44055.
Corequisite: RIS 44074.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44067  COMPUTED TOMOGRAPHY TECHNIQUES  2 Credit Hours
Continuation of CT Practices, students will review knowledge in each content area of the national certification exam in computed tomography imaging.
Prerequisite: RIS 44063; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44068  COMPUTED TOMOGRAPHY TECHNIQUES  2 Credit Hours
Continuation of CT Practices, students will review knowledge in each content area of the national certification exam in CT including patient management, imaging procedures, and physics and instrumentation.
Prerequisite: RIS 44054; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44069  COMPUTED TOMOGRAPHY CLINICAL EDUCATION III  1 Credit Hour
Continuation of CT Practices, students will review knowledge in each content area of the national certification exam in CT including patient management, imaging procedures, and physics and instrumentation.
Prerequisite: RIS 44054.
Schedule Type: Clinic, Laboratory
Contact Hours: 2.5 lab, 5 other
Grade Mode: Standard Letter-IP
RIS 44072 OBSTETRICS AND GYNECOLOGY SONOGRAPHY II 3 Credit Hours
Embryonic and fetal development throughout gestation; fetal measurements, normal fetal anatomy and physiology; and abnormal sonographic appearances of the fetus will be covered as well as invasive obstetric procedures and antepartum testing.
Prerequisite: RIS 34062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44073 MAGNETIC RESONANCE IMAGING CLINICAL EDUCATION III 1 Credit Hour
Continuation of Clinical Education II with student advancing skills and proficiency in performing MRI procedures in the clinical setting and are able to solve problems in a more independent manner.
Prerequisite: RIS 44063.
Schedule Type: Clinic, Laboratory
Contact Hours: 2.5 lab, 5 other
Grade Mode: Standard Letter-IP

RIS 44074 VASCULAR SONOGRAPHY 2 Credit Hours
Anatomy, physiology and hemodynamics of the cerebrovascular, abdominal and peripheral vascular systems; normal and abnormal sonographic vascular appearances; Doppler instrumentation and scanning techniques are covered.
Prerequisite: RIS 44055 and radiologic and imaging sciences (RIS) major.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RIS 44078 SONOGRAPHIC TECHNIQUES 3 Credit Hours
Course integrates diagnostic medical sonography concepts in preparation for certification exams.
Prerequisite: RIS 34044 and 34052 and 44072.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44080 RADIATION THERAPY CLINICAL EDUCATION V 3 Credit Hours
Continuation of Clinical Education IV with added emphasis on clinical practice, treatment procedures, simulation and treatment planning.
Prerequisite: RIS 44060.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RIS 44083 PATHOPHYSIOLOGY FOR MEDICAL IMAGING 3 Credit Hours
Provides students with basic information on the causes of disease and the body’s response to disease, as well as the medical imaging modalities that will demonstrate them.
Prerequisite: radiologic and imaging sciences (RIS) major; and RIS 34045 or RIS 44003 or RIS 44004.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RIS 44084 ULTRASOUND IMAGE EVALUATION 1 Credit Hour
Presentation of sonographic findings in specific disease processes, with evaluation of image quality and emphasis on diagnostic features of pathologic entities.
Prerequisite: RIS 34065 and radiologic and imaging sciences (RIS) major.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 44088 LEADERSHIP IN MEDICAL IMAGING 1 Credit Hour
An introduction to the key strategies needed for success in health care leadership positions for both new and seasoned professionals. Includes supervision skills, competent communication, employment law, performance coaching, quality standards, accreditation and regulations, budgeting and finance, project management, leadership skills and health economics.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RIS 44096 INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS 3 Credit Hours
(Repeatable for credit) Students are assigned prescribed number of medical imaging journal articles, completes post test and submits a summary paper and online discussions.
Prerequisite: Radiologic and imaging sciences (RIS) major and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RIS 44098 RESEARCH IN MEDICAL IMAGING (ELR) (WIC) 3 Credit Hours
Fundamental concepts and procedures for systematic collection, analysis critique and application of qualitative and quantitative data in medical imaging.
Prerequisite: RIS 34030 or RIS 34045 or RIS 44003 or RIS 44004; and radiologic and Imaging Science (RIS) major.
Schedule Type: Research
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

Radiologic Technology (RADT)

RADT 14003 INTRODUCTION TO RADIOLOGIC TECHNOLOGY 2 Credit Hours
Introduction to radiologic technology program, general anatomy, radiographic procedures, imaging equipment and techniques, radiation protection, professional organizations and clinical education.
Prerequisite: radiologic technology (RADT) major and admission to technical study.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, .5 lab
Grade Mode: Standard Letter
RADT 14005  CLINICAL EDUCATION I  1 Credit Hour
Supervised observation and experience at the clinical education site with
emphasis on clinical practice of basic skills of radiologic technology and
the exams covered in Radiographic Procedures I (chest and abdomen). Student is assigned to the clinical education site for 15 hours per week
for 7.5 weeks in summer.
Prerequisite: radiologic technology (RADT) major.
Corequisite: RADT 14003 and 14006 with a minimum grade of C (2.000).
Schedule Type: Clinic, Laboratory
Contact Hours: 2.5 lab, 5 other
Grade Mode: Standard Letter-IP

RADT 14006  RADIOGRAPHIC PROCEDURES I  1 Credit Hour
Introduction to radiographic procedures and positioning of the chest and
abdomen.
Prerequisite: Radiologic Technology (RADT) major and admission to
technical study.
Corequisite: RADT 14003 and RADT 14005.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

RADT 14015  CLINICAL EDUCATION II  3 Credit Hours
Continuation of Clinical Education I with emphasis on skeletal
radiography that includes upper and lower extremities, shoulder and
pelvic girdles, vertebral spine and bony thorax. Student is assigned to the
clinical site 22.5 hours per week.
Prerequisite: RADT 14005 and 14006.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter

RADT 14018  IMAGING EQUIPMENT  2 Credit Hours
A study of the equipment used in radiographic imaging including x-ray
tubes, x-ray filters, beam restrictors, grids, image receptors, fluoroscopic
and mobile equipment and methods of quality control.
Prerequisite: RADT 14003.
Corequisite: RADT 14015.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.8 lecture, .2 lab
Grade Mode: Standard Letter

RADT 14021  RADIOGRAPHIC PROCEDURES II  4 Credit Hours
Radiographic anatomy, positioning and image evaluation of the upper
extremities, shoulder girdle, lower extremities, pelvic girdle, vertebral spine
and bony thorax.
Prerequisite: RADT 14006.
Corequisite: RADT 14015.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

RADT 14024  RADIOGRAPHIC PROCEDURES III  4 Credit Hours
Radiographic anatomy, positioning, procedures and image evaluation of the
gastrointestinal, biliary and urinary systems and skull and facial
bones positioning.
Prerequisite: BSCI 11010 or ATTR 25057 or EXSC 25057; and
RADT 14021.
Corequisite: RADT 14025.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

RADT 14025  CLINICAL EDUCATION III  3 Credit Hours
Continuation of Clinical Education II with emphasis on clinical practice
of previous course content plus digestive, biliary and urinary procedures
as well as skull and facial bones positioning. Student assigned to clinical
education setting 22.5 hours per week.
Prerequisite: RADT 14015.
Corequisite: RADT 14024.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RADT 14034  IMAGE ACQUISITION AND PROCESSING  2 Credit Hours
Study of the technical factors and process of image acquisition,
factors affecting image quality, processing of digital images and data
management. Prerequisites: RADT 14018.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

RADT 14075  CLINICAL EDUCATION IV  3 Credit Hours
Continuation of Clinical Education III with emphasis on clinical practice
of content in previous clinical courses. More emphasis on independent
clinical practice of procedures previously mastered. Students assigned to
clinical education site 30 hours per week for 8 weeks.
Prerequisite: RADT 14025.
Schedule Type: Clinic, Laboratory
Contact Hours: 10 lab, 20 other
Grade Mode: Standard Letter-IP

RADT 14085  CLINICAL EDUCATION IV  2 Credit Hours
Continuation of Clinical Education III with emphasis on clinical practice
of content in previous clinical courses. More emphasis on independent
clinical practice of procedures previously mastered. Students assigned to
clinical education site 30 hours per week for 8 weeks.
Prerequisite: RADT 14025.
Schedule Type: Clinic, Laboratory
Contact Hours: 10 lab, 20 other
Grade Mode: Standard Letter-IP

RADT 14096  INDIVIDUAL INVESTIGATION IN DIRECTED READINGS IN
RADIOLOGIC TECHNOLOGY  3 Credit Hours
(Repeatable for credit) Student selects prescribed number of medical
journals, completes questions, paper and presentation.
Prerequisite: special approval.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RADT 21095  SPECIAL TOPICS IN RADIOLOGIC TECHNOLOGY  2-4
Credit Hours
(repeated registration permitted) Student participation course on topics
pertinent to radiologic technology. Topics are chosen by the instructor.
Student may enroll in course more than once.
Prerequisite: special approval from instructor.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter
RADT 24006 RADILOGIC PHYSICS 4 Credit Hours
Introduction to general physics, units and measurement, atomic structure, electromagnetic spectrum, x-ray production, electricity, magnetism, electromagnetism, x-ray tube, x-ray circuitry and fluoroscopic equipment are covered. (000)
Prerequisite: RADT 14018 with a minimum grade of C (2).
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

RADT 24008 RADIObIOLOGY AND RADIATION PROTECTION 3 Credit Hours
Biological aspects of radiation, radiation interaction with matter, minimizing patient radiation exposure, and personnel protection are topics covered.
Prerequisite: BSCI 11010 and BSCI 11020, or BSCI 21010 and BSCI 21020, or AHS 25057 and AHS 25058, or EXSC 25058, or EXSC 25057 and EXSC 25058; and RADT 14033.
Corequisite: RADT 24018.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24014 ADVANCED IMAGING 3 Credit Hours
Procedures and equipment used in advanced medical imaging including fluoroscopy, mammography, CT, MRI, interventional imaging, nuclear medicine, PET imaging, diagnostic medical sonography, radiation therapy and fusion studies as well as quality assurance.
Prerequisite: RADT 14075.
Corequisite: RADT 24015.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24015 CLINICAL EDUCATION IV 3 Credit Hours
Continuation of Clinical Education IV with emphasis on clinical practice of content of previous clinical courses. More emphasis on independent clinical practice previously mastered. Students assigned to clinical education setting 22.5 hours per week and rotates to special medical education setting 22.5 hours per week and rotates to special medical practice previously mastered. Students assigned to clinical education site 22.5 hours per week.
Prerequisite: RADT 14075.
Corequisite: RADT 24014.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RADT 24016 IMAGING PHYSICS 3 Credit Hours
Introduction to general physics, units and measurement, atomic structure, electromagnetic energy, x-ray production, electrodynamics, magnetism and electromagnetic devices, x-ray tube and x-ray circuitry.
Prerequisites: RADT 14018
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24025 CLINICAL EDUCATION VI 3 Credit Hours
Continuation of Clinical Education V with emphasis on mastery of clinical procedures. Students assigned to clinical education site 22.5 hours per week.
Prerequisite: RADT 24018.
Schedule Type: Clinic, Laboratory
Contact Hours: 7.5 lab, 15 other
Grade Mode: Standard Letter-IP

RADT 24026 RADILOGIC PATHOLOGY 3 Credit Hours
Disease process and the pathologies associated with each anatomical system are described and their application to all modalities in the radiologic and imaging sciences.
Prerequisite: radiologic technology (RADT) major; and admission to technical study; and HED 14020; and BSCI 11010 and BSCI 11020 all with a minimum grade of C (2.000).
Corequisite: RADT 24025.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24048 RADIOGRAPHIC TECHNIQUES 3 Credit Hours
Review of radiologic technology to include patient care, anatomy and physiology, radiologic procedures, equipment and image production, radiologic physics, and radiation protection in preparation for the radiography certification exam.
Prerequisite: AHS 14016; and BSCI 11010 and BSCI 11020 or BSCI 21010 and BSCI 21020; and RADT 14024, RADT 14034, RADT 24008 and RADT 24016 all with a minimum grade of C.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24058 DIVERSIFIED EMPLOYMENT SKILLS 3 Credit Hours
Course features multiple topics in medical imaging to prepare graduates for employment in healthcare.
Prerequisite: AHS 14016.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RADT 24096 INDIVIDUAL INVESTIGATION IN RADIOLOGIC TECHNOLOGY 1 Credit Hour
Directed research of special interest or need in the student's program. A research paper will be written on an assigned topic in radiologic technology.
Prerequisite: RADT 14003 with a minimum grade of C (2.000); and radiologic technology (RADT) major; and admission to technical study.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

RADT 24196 INDIVIDUAL INVESTIGATION IN ADVANCED READINGS IN RADIOLOGIC TECHNOLOGY 3 Credit Hours
(Repeatable for credit)Course permits scholarly activities for research, study and summary of medical journal articles. Information aids in understanding recent advancements in medical imaging.
Prerequisite: Radiologic technology (RADT) major and admission to technical study.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter

Real Estate and Related Techs (RERT)

RERT 11000 REAL ESTATE PRINCIPLES AND PRACTICES 3 Credit Hours
Introduction to listing, selling, real estate math, legal descriptions of property and contracts.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
RERT 11001  REAL ESTATE LAW  3 Credit Hours
Review of basic Ohio laws covering the functions of an agency and the legal aspects of real estate transactions.
Prerequisite: RERT 11000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RERT 21000  REAL ESTATE APPRAISAL  2 Credit Hours
Emphasizes methodology of appraising urban real property and appraisal techniques. Presents market approach to residential appraisal.
Prerequisite: RERT 11000.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RERT 21003  SPECIAL TOPICS IN REAL ESTATE  2 Credit Hours
(Repeatable for credit) Seminar involving discussion of current issues and solutions to special problems in real estate investment, management and brokerage operations.
Prerequisite: RERT 11000 and RERT 11001 and RERT 11003 and RERT 21000.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Respiratory Care (RSPC)

RSPC 30000  PROFESSIONAL PRACTICE IN RESPIRATORY CARE  3 Credit Hours
Course guides students in the area of professional practice and the importance of evidence-based practice; continuing professional development; using theory to inform practice; being reflective, ethical and organized; and proactively planning a career as an advanced practitioner.
Prerequisite: respiratory care (RSPC) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 30002  LEADERSHIP AND MANAGEMENT IN RESPIRATORY CARE  3 Credit Hours
Course allows students to utilize their knowledge and experience in understanding leadership as a team leader or team member in the practice of respiratory care. Management in respiratory care is explored, including hospital organization; department structure; outcomes; staffing, billing, budgeting and staff development; decision-making; and effective communication.
Prerequisite: respiratory care (RSPC) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 30004  EDUCATIONAL INSTRUCTION IN RESPIRATORY CARE  3 Credit Hours
Course guides students in perspectives on teaching and learning, characteristics of the learner and techniques and strategies for teaching and learning. Delivery of respiratory therapy education in various settings.
Prerequisite: respiratory care (RSPC) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 30006  SLEEP MEDICINE AND POLYSOMNOGRAPHY  3 Credit Hours
A fundamental overview of a variety of sleep and breathing disorders that affect sleep. Topics include the identification of normal sleep and sleep disorders, methods of diagnosing sleep disorders, and treatment options. Practice in comparing and evaluating the indications and contraindications for sleep studies and evaluating sleep study results in relation to types of respiratory sleep disorders.
Prerequisite: respiratory care (RSPC) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 31095  SPECIAL TOPICS IN RESPIRATORY CARE  1-3 Credit Hours
(Repeatable for credit) Scheduled topics of interest to students and faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RSPC 40000  DISEASE MANAGEMENT IN RESPIRATORY CARE  3 Credit Hours
Provides an advanced understanding of the pathophysiology and management of cardiopulmonary disease and comorbidities. Provides training in critical thinking in the management of chronic disease and utilization of patient-therapist participation principles; patient communication, evaluation, development of care plans and action plans utilizing evidence-based medicine; and protocols and clinical practice guidelines.
Prerequisite: respiratory care (RSPC) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40002  RESEARCH DEVELOPMENT IN RESPIRATORY CARE (WIC)  3 Credit Hours
Introduces the respiratory care practitioner to research methodology and design, their application to health science research and the application of research to everyday health care.
Prerequisite: MATH 10041 or MIS 24506 or PH 30002 or PSYC 21621 or SOC 32220 and SOC 32221; ENG 21011 or HONR 10297; Respiratory care (RSPC) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course
RSPC 40004  ADVANCED PRACTICE IN RESPIRATORY CARE  3 Credit Hours
Explores the traditional practice roles filled by respiratory therapists; the advanced practice roles that exist, as well as those that are emerging within the profession; and the career opportunities they represent for practitioners.
Prerequisite: respiratory care (RSPC) major, and admission to professional study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40006  CONTEMPORARY ISSUES AND TRENDS IN RESPIRATORY CARE  3 Credit Hours
Analysis of contemporary issues and trends in respiratory care and their impact on the profession.
Prerequisite: respiratory care (RSPC) major; and admission to professional study.
Pre/corequisite: NURS 46000; and RSPC 40075.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40008  CHRONIC DISEASE MANAGEMENT PRINCIPLES  3 Credit Hours
This course focuses on the application of critical thinking in the area of managing chronic disease and the impact healthcare professionals have on affecting positive patient population outcomes. Current practices, utilization of evidence-based medicine, protocols and current principles and trends in managing the impact of acute to chronic disease are discussed.
Prerequisite: Respiratory Care (RSPC) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 40075  INFORMATION AND PATIENT CARE TECHNOLOGY FOR HEALTHCARE PROFESSIONALS  3 Credit Hours
(Cross-listed with NURS 40075) Focuses on the use of information management and information systems, technology and the human technology interface utilized in professional practice.
Prerequisite: respiratory care (RSPC) major; and admission to professional study.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

RSPC 41092  PRACTICUM FOR RESPIRATORY CARE (ELR)  3 Credit Hours
An individually planned practicum that provides students the opportunity to explore real world application of program principles and practice options, or to conduct research within the realm of respiratory care under the guidance of a registered respiratory therapy practitioner. Focus is on options for practice or enhancing practice through application of program principles. Student’s practicum experience requires prior faculty approval before registration. Pre corequisites: RSPC 30000; RSPC 30002; RSPC 30004; RSPC 30006; RSPC 40006; RSPC 40075 or NURS 40075; NURS 46000; RSPC 40002; RSPC 40004; RSPC 40000 or RSPC 40008, admission to professional study and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 3 lecture
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement
RTT 11008 BLOOD GAS ANALYSIS 2 Credit Hours
A study of methods, equipment, and procedures for obtaining arterial blood; additionally, the principles and standards of analysis and applications of physiological data is stressed.
Prerequisite: RTT 10000 and RTT 11003 with a minimum grade of C (2.000).
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 1.5 lab
Grade Mode: Standard Letter

RTT 21000 CRITICAL CARE 4 Credit Hours
An advanced-level course that provides a foundation for managing patients in critical care utilizing mechanical ventilation, pharmacology, and hemodynamic monitoring systems. Students perform, interpret and apply data, and learn advanced life support. There is a clinical component.
Prerequisite: RTT 21001 and 21003 with a minimum grade of C (2.000).
Schedule Type: Clinic, Lecture
Contact Hours: 3 lecture, 16 other
Grade Mode: Standard Letter

RTT 21001 MECHANICAL VENTILATION 5 Credit Hours
Establishes a foundation of mechanical ventilation and associated equipment; assessment, monitoring and modifying parameters. There is a laboratory and clinical component.
Prerequisite: RTT 11001 or AHS 12000; RTT 11002; RTT 11004; RTT 11008; BSCI 11010 and BSCI 11020 or BSCI 21010 and BSCI 21020; PHY 12111 or PHY 13001; CHEM 10050 or CHEM 10055 or CHEM 10060; ENG 11011 or ENG 21011 or HONR 10197 or HONR 10297; all with a minimum grade of C (2.000).
Schedule Type: Clinic, Laboratory, Lecture
Contact Hours: 4 lecture, 4 lab, 16 other
Grade Mode: Standard Letter

RTT 21003 PERINATAL AND PEDIATRIC RESPIRATORY THERAPY 2 Credit Hours
An intense study of assessing, providing, and evaluating neonatal and pediatric respiratory care. Topics include: assessment of growth and development from conception to delivery, resuscitation, persistent illness, therapeutic interventions, and managing mechanical ventilation.
Prerequisite: RTT 11001 or AHS 12000 with a minimum grade of C (2.000); and RTT 11002 and RTT 11004 and RTT 11008 all with a minimum grade of C (2.000).
Schedule Type: Combined Lecture and Lab
Contact Hours: 1.5 lecture, 1.5 lab
Grade Mode: Standard Letter

RTT 21004 ADVANCED DIAGNOSTICS 3 Credit Hours
Provides knowledge and skills necessary to work effectively in a pulmonary function laboratory. Topics include: spirometry, testing standards and techniques, equipment set up and utilization, analyzing test results and applying them in the clinical setting.
Prerequisite: RTT 11003 and 11008 with a minimum grade of C (2.000).
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

RTT 21005 PULMONARY REHABILITATION AND CONTINUING CARE 2 Credit Hours
Roles and functions of respiratory therapists in cardiopulmonary rehabilitation and home care.
Prerequisite: RTT 21001 with a minimum grade of C (2.000).
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RTT 21006 PULMONARY REHABILITATION AND CONTINUING CARE 1 Credit Hour
Roles and functions of respiratory therapists in cardiopulmonary rehabilitation and home care.
Prerequisite: RTT 21001 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

RTT 21010 RESPIRATORY THERAPY CAPSTONE COURSE 3 Credit Hours
Contemporary issues and trends in respiratory care; preparation for the CRT and RRT credentialing examinations; obtaining employment after graduation. There is a laboratory and clinical component.
Prerequisite: RTT 21000 with a minimum grade of C (2.000).
Schedule Type: Clinic, Laboratory, Lecture
Contact Hours: 1 lecture, 3 lab, 16 other
Grade Mode: Standard Letter

RTT 21012 BASIC RESEARCH DEVELOPMENT AND ANALYSIS 2 Credit Hours
Survey of research problems, methods, and designs utilized in respiratory care with a focus on developing analytical and critiquing skills.
Prerequisite: RTT 21000 with a minimum grade of C (2.000).
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

RTT 21013 RESPIRATORY THERAPY CAPSTONE 2 Credit Hours
Contemporary issues and trends in respiratory care# preparation for the CRT and RRT credentialing examinations# obtaining employment after graduation.
Prerequisite: RTT 21000 with a minimum C grade.
Schedule Type: Clinic, Laboratory, Lecture
Contact Hours: 1 lecture, 1 lab, 16 other
Grade Mode: Standard Letter

RTT 21095 SPECIAL TOPICS IN RESPIRATORY THERAPY 1-3 Credit Hours
(Repeatable for credit) Scheduled topics of interest to students and faculty.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

RTT 21096 INDIVIDUAL INVESTIGATION IN RESPIRATORY THERAPY 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Readings and/or investigation of respiratory therapy topics supervised by respiratory therapy faculty.
Prerequisite: respiratory therapy technology (RTT) majors.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory
Technical and Applied Studies (TAS)

TAS 37900  TECHNICAL AND APPLIED STUDIES CORNERSTONE  3 Credit Hours
Cornerstone course instructs students about how the work role in industrial and information societies has evolved to its current organization. Students personalize the information by reflecting on the role of work in their own lives by reviewing theory and application of their own career management; examine the stages of career development; job stress; entrepreneurial careers; and organization.
Prerequisite: Technical and Applied Studies (TAS) or Engineering Technology (ENG) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TAS 47900  TECHNICAL AND APPLIED STUDIES CAPSTONE (ELR)  3 Credit Hours
Designed to help students articulate and integrate the competencies that are part of their bachelor’s degree program. In part, an electronic portfolio is used to help describe familiarity with the competencies.
Prerequisite: Technical and Applied Studies (TAS) or Engineering Technology (ENG) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Veterinary Technology (VTEC)

VTEC 10001  INTRODUCTION TO VETERINARY TECHNOLOGY  2 Credit Hours
Introduction to veterinary technician’s career: medical terminology, career choices, occupational safety, human-animal bond, pet loss, euthanasia, animal husbandry and basic nutrition, breed identification, basic animal behavior.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 10002  VETERINARY NURSING I  3 Credit Hours
Introduction to animal nursing: record keeping, kennel sanitation, animal restraint, syringe and needle identification/handling, injection techniques, physical exams, grooming and administration of medications. Lecture two hours, laboratory 3 hours weekly.
Prerequisite: Veterinary technology (VTEC) major; and admission to technical study.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 10004  TECHNICAL AND APPLIED STUDIES CORNERSTONE  3 Credit Hours
Cornerstone course instructs students about how the work role in industrial and information societies has evolved to its current organization. Students personalize the information by reflecting on the role of work in their own lives by reviewing theory and application of their own career management; examine the stages of career development; job stress; entrepreneurial careers; and organization.
Prerequisite: Technical and Applied Studies (TAS) or Engineering Technology (ENG) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

VTEC 10200  VETERINARY NURSING II  3 Credit Hours
Clinical application off-site. Emphasis on skills from VTEC 10002; physical exam, medications, blood vessels catheterization, venipuncture; fluid therapy, wound care, patient rehabilitation and physical therapy, first aid, bandaging and CPR.
Prerequisite: Minimum C grade in BSCI 10005 and CHEM 10050 and HED 14020 and VTEC 10002 and VTEC 10204, Pre/corequisite: VTEC 10001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 10204  CLINICAL LABORATORY I  3 Credit Hours
Introduction to clinical laboratory: equipment and equipment maintenance; internal and external parasites; urinalysis. Lecture 2 hours, laboratory 3 hours weekly.
Prerequisite: Veterinary technology (VTEC) major.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 20008  CLINICAL LABORATORY II  3 Credit Hours
Continuation and application of laboratory skills from Clinical Laboratory I; hematology, serology, cytology and other laboratory skills. Lecture 2 hours, laboratory 3 hours weekly.
Prerequisite: minimum grade of C (2.000) in all prerequisites; BSCI 10005 and CHEM 10050 and VTEC 10002 and VTEC 10204; pre- or corequisites: VTEC 10001 and VTEC 10205.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 20009  VETERINARY NURSING III  3 Credit Hours
Continuing nursing skills/techniques emphasizing large animal species: restraint, venipuncture, behavior, breeds, feedstuffs, food safety, meds, preventive care, surgical procedures, lameness. Lecture 2 hours, laboratory 3 hours weekly.
Prerequisite: BSCI 10005 and BSCI 10110 and CHEM 10052 and CHEM 10053 and HED 14020 and VTEC 10001 and VTEC 10002 and VTEC 10204; pre- or corequisite: VTEC 10001.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 20200  CLINICAL LABORATORY III  3 Credit Hours
Continuation of Clinical Laboratory I and II with emphasis on clinical application of skills.
Prerequisite: Minimum C grade in BSCI 10005 and CHEM 10050 and HED 14020 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and CHEM 10053 and VTEC 20008; pre- or corequisite: VTEC 10205.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 20201  IMAGING TECHNIQUES  3 Credit Hours
Principles and application of the production of X-rays, processing, radiation safety, storage, patient positioning and other imaging techniques. Lecture 2 hours, laboratory 3 hours weekly.
Prerequisite: BSCI 10005 and BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008; and pre- or corequisite: VTEC 10206.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter
VTEC 20212  SURGERY AND ANESTHESIA  3 Credit Hours
Principles and application of the use of anesthetics, patient monitoring, dental prophylaxis, presurgery preparation, post-surgical patient care, sterilization, surgical preparation and assisting and equipment maintenance. Lecture 2 hours, laboratory 3 hours weekly.
Prerequisite: minimum grade of C (2.000) in all prerequisites; BSCI 10005 and BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008; and pre- or corequisite: VTEC 10206.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 20213  NUTRITION AND DISEASE  2 Credit Hours
Principles of the disease process, disease control and prevention of common diseases of domestic animals. Nutrition principles especially for clinical diseases will be covered. Lecture 2 hours weekly.
Prerequisite: BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

VTEC 20214  VETERINARY NURSING AND HOSPITAL PROCEDURES  3 Credit Hours
Nursing procedures for laboratory and animal exotic procedures; procedures by a veterinary technician in a hospital environment including office and computer application. Lecture 1 hour, laboratory 6 hours weekly including computer applications.
Prerequisite: BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 6 lab
Grade Mode: Standard Letter

VTEC 20215  VETERINARY OFFICE APPLICATIONS  1 Credit Hour
Overview of veterinary practice management including veterinary medical record keeping, marketing, staff responsibilities, interoffice communications and public relation techniques. Automated veterinary office processing and record-keeping. Computer hardware and software commonly found in small to mid-sized veterinary practices described along with office procedures and work flow. Prerequisites: BSCI 10005, VTEC 10001, VTEC 10002, VTEC 10204
Schedule Type: Laboratory
Contact Hours: 3 lab
Grade Mode: Standard Letter

VTEC 20216  LABORATORY AND EXOTIC ANIMAL MEDICINE  2 Credit Hours
Introduction to laboratory medicine and management, including basic husbandry, common diseases, and treatment protocols for various laboratory animal species, pocket pets, avian and exotic species. The student will learn scientific names and primary use of common laboratory animals and will practice restraint, sexing, appropriate methods of venipuncture, administration of medications, and anesthetic techniques.
Prerequisite: VTEC 10001, VTEC 10205, VTEC 10206, VTEC 20008, VTEC 20010, VTEC 20212.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

VTEC 20392  PRACTICUM IN VETERINARY HOSPITAL (ELR)  5 Credit Hours
(Repeatable for credit) Students gain practical experience in veterinary clinic or approved clinical site to focus on mastery of all clinical skills needed for this career.
Prerequisite: BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.
Corequisite: VTEC 20213 and VTEC 20214.
Schedule Type: Practicum or Internship
Contact Hours: 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

Viticulture and Enology (VIN)

VIN 10500  MOLECULAR PRINCIPLES IN GRAPE AND WINE  4 Credit Hours
Covers the basic chemistry involved in the wine and winemaking process. Includes basic understanding of the chemistry involved in the fermentation process, flavor, aroma and color of wine.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter-IP

VIN 11100  INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT  3 Credit Hours
Introduces students to current practices for establishing a commercial vineyard and maintaining its health and productivity once established. Topics covered include varietal selection, site preparation, equipment, site selection, first season establishment, vine growth development and training, trellis systems, vine propagation, weed control and vine disease control. Field work sessions consisting of 16 hours of hands-on experience is scheduled in area vineyards.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter-IP

VIN 11200  BOTANICAL VITICULTURE  4 Credit Hours
Provides students with an overview of the plant kingdom and an examination of grapevine form and function from a botanical perspective.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter-IP

VIN 11392  WINTER VITICULTURE FIELDWORK (ELR)  2 Credit Hours
(Repeatable for credit) Provides students initiated in the field of viticulture practical experience in winter vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork portion of the course, which serves as experience for those seeking employment in commercial viticulture.
Prerequisite: VIN 11100.
Schedule Type: Field Experience, Lecture
Contact Hours: 1.5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement
VIN 11492  SPRING VITICULTURE FIELDWORK (ELR)  2 Credit Hours
(Repeatable for credit) Designed to provide students initiated in the field of viticulture practical experience in spring vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork experience portion of the course, which serves as experience for those seeking employment in commercial viticulture.
Prerequisite: VIN 11100.
Schedule Type: Field Experience, Lecture
Contact Hours: 1.5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VIN 11592  SUMMER/FALL VITICULTURE FIELDWORK (ELR)  2 Credit Hours
(Repeatable for credit) Provides viticulture students practical experience in summer and fall vineyard operations. Students are required to partner with an approved vineyard to participate in the required fieldwork portion of the course, which serves as experience for those seeking employment in commercial viticulture.
Prerequisite: VIN 11100.
Schedule Type: Field Experience, Lecture
Contact Hours: 1.5 lecture, 2.5 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

VIN 20095  SPECIAL TOPICS IN VITICULTURE AND ENOLOGY  1-3 Credit Hours
(Repeatable for a maximum of 9 credit hours) Various special topics to be announced in the Schedule of Classes, offering current topics in viticulture and enology.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

VIN 21100  INTEGRATED PEST MANAGEMENT  2 Credit Hours
Effective grape production depends on the grower developing a system of grape management that is appropriate for each vineyard. Decisions need to be made for how to manage all of the normal cultural practices such as planting, fertility, harvesting and pruning, as well as managing the insect, disease and weed problems that occur either regularly or sporadically. Course addresses management issues related to common, expected pest problems, as well as the occasional appearance of minor pest problems.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

VIN 21300  REGIONAL VINEYARD MANAGEMENT  2 Credit Hours
A general study of vineyard management in the general wine growing regions in the Continental United States. Covers management of the mature vineyard from region to region and builds on the topics covered in prerequisite course.
Prerequisite: VIN 11100.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

VIN 29300  SOILS FOR VITICULTURE  3 Credit Hours
Explores soil properties and behavior and their influence on wines. Focuses not only on growth and production, but on the long-term effects of viticulture on soil quality and the wider environment.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP