COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

Mission of the College
The College of Architecture and Environmental Design is dedicated to preparing graduates for leadership in a rapidly changing world, focused on professions relating to the design and construction of the built environment. The college's commitment is to the education of professionals who will enhance the physical environment, improve the quality of life and protect and enrich public welfare.

The college broadens students' exposure to advanced tools, techniques and theories, and complements its progressive curricula with robust co-curricular opportunities ranging from lecture and exhibition series, to symposia and traveling workshops. Experiential, collaborative, cross-disciplinary, hands-on, project-based learning in classrooms, studios and labs — as well as on project sites and in domestic and foreign cities — is key to a vibrant, forward-leaning education at the College of Architecture and Environmental Design.

The college invests in scholarship and research in the various disciplines and in the dissemination of new knowledge. It contributes to the public welfare through outreach programs to assist communities in their efforts and interest in improving the physical environment.

Undergraduate Programs
- Architectural Studies - B.A.
- Architecture - B.S.
- Construction Management - B.S.
- Interior Design - B.A.

Minors
- Architectural History
- Architectural Studies
- Construction Management
- Historic Preservation

Graduate Programs
- Architecture - M.Arch.
- Architecture and Environmental Design - M.S.
- Construction Management - M.S.
- Healthcare Design - M.H.D.
- Landscape Architecture - M.L.A. I
- Landscape Architecture - M.L.A. II
- Urban Design - M.U.D.

Graduate Certificates
- Health Systems and Facilities Design

College of Architecture and Environmental Design Faculty
- Adamtey, Simon (2016), Associate Professor
- Bayramzadeh, Sara (2018), Assistant Professor, Ph.D., University of Florida, 2015
- Bielak, Britta (2022), Assistant Professor, M.F.A., Virginia Commonwealth University, 2014
- Brandner, Sara K. (2010), Lecturer, M.Tech., Kent State University, 2018
- Coffman, Reid R. (2012), Professor
- Daniel, Ronn (2018), Associate Professor, M.Arch., University of Illinois at Chicago, 1994
- Davis-Sikora, Diane M. (1997), Professor, M.Arch., Harvard University Graduate & Professional School, 1995
- Frederick, Charles M. (1996), Assistant Professor, M.L.A., University of Virginia-Main Campus, 1998
- Hernandez, Keyla M. (2018), Assistant Professor
- Hughes, David (1985), Professor, M.U.P., New York City College of Technology, 1975
- Hutchinson, Matthew (2022), Assistant Professor
- Jaminet, Jean J. (2017), Assistant Professor, M.Arch., Princeton University, 2004
- Karpinski, Joseph (1990), Senior Lecturer, M.Tech., Kent State University, 2018
- Lahmer, Jill (2008), Associate Professor, B.A., Bowling Green University, 1999
- Liu, Rui (2013), Associate Professor, Ph.D., University of Colorado-Denver, 2010
- Lucak, Frederick W. (1986), Associate Professor, B.Arch., Kent State University, 1990
- Meshkani, Taraneh (2018), Assistant Professor, Harvard University Graduate & Professional School, 2016
- Mimms-Scavnicky, Kristen (2021), Assistant Professor, M.Arc., University of Cincinnati, 2014
- Mirando, Anthony M. (2013), Associate Lecturer, M.S., Colorado State University, 2014
- Mosley, Paul L. (2022), Assistant Professor, M.A., University of Illinois at Chicago, 2017
- Onsarigo, Lameck M. (2016), Associate Professor, Ph.D., Indiana State University, 2016
- Patel, Tina (2018), Assistant Professor, M.F.A., Iowa State University, 2016
- Poustitchi, Mohammad Ebraham (2017), Assistant Professor, M.Arch., University of California-Los Angeles, 2014
- Robison, Elwin C. (1985), Professor, Ph.D., Cornell University, 1985
- Rugare, Steven N. (1993), Professor
- Safley, Robert N. (2018), Assistant Professor, M.Arch., University of Michigan-Ann Arbor, 2013
- Sharag-Eldin, Adil M. (2002), Associate Professor, Ph.D., University of California-Berkeley, 1998
• Sosa Fontaine, Andrea-Louise (2020), Assistant Professor
• Stauffer, Thomas A. (1977), Professor, M.Arch., University of Pennsylvania, 1976
• Strand, Kathryn E. (2003), Associate Professor, M.Arch., University of Pennsylvania, 2003
• Stroh, Gregory S. (1998), Associate Professor, M.Arch., University of Pennsylvania, 1996
• Tippey, Brett D. (2012), Associate Professor, Ph.D., Universidad de Navarra, 2011
• Willoughby, William T. (2013), Associate Professor, M.A., Kent State University, 1991
• Yoder, Jon (2013), Associate Professor, Ph.D., University of California-Los Angeles, 2011

Architectural Studies (ARCS)

ARCS 10121  REPRESENTATION OF DESIGN I  3 Credit Hours
A survey of the techniques and assumptions of basic architectural design concepts and representation of the built environment through analytical and synthetic exercises that introduce fundamental design skills. In order to integrate students into the college and the field, the exercises are supplemented by readings in contemporary visual culture. 
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCS 10122  REPRESENTATION OF DESIGN II  3 Credit Hours
Continuation of ARCS 10121 with an emphasis on 3-D thinking and representation, critical skills and the role of images in architectural culture and society. The course also introduces the wider application of design principles in graphic design, digital media and the visualization of information.
Prerequisite: ARCS 10121 or ARCH 10101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

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

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

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

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

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

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

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

ARCS 30123  MATERIALS AND PROCESS OF MAKING  3 Credit Hours
Seeks to introduce and foster an ease of mobility through analog and digital design environments utilizing drawing, modeling and fabrication. Students engage in modes of production that will enable the testing of material, spatial, and tectonic performance through scalar prototyping.
Prerequisite: AED 10102, ARCH 10102, ARCS 10123, ART 10022, ART 10023, FDM 10023, ID 10112, or VCD 13001, and junior standing.
Schedule Type: Lecture, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter
ARCS 30124  METHODS AND THEORIES OF REPRESENTATION  3 Credit Hours
Seeks to examine traditional and contemporary methods of architectural representation as generative tools that mediate between individual idea and constructed environment.
Prerequisite: AED 10102, ARCH 10102, ARCS 10123, ART 10022, ART 10023, FDM 10023, ID 10112, or VCD 13001, and junior standing.
Schedule Type: Lecture, Studio
Contact Hours: 1 lecture, 4 other
Grade Mode: Standard Letter

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

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

ARCS 40022  URBAN DESIGN DISCOURSE (ELR)  3 Credit Hours
Course explores the interconnections among making space, image creation and inhabiting the city; engages students in visual and textual documentation of urban life and phenomena. Course presents history, theory and practices of documentation in conjunction with investigation of, and frequent visits to, Cleveland sites as the basis for student projects.
Prerequisite: ARCH 10012; and junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

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

Architecture (ARCH)

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

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

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

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

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

ARCH 10102  FIRST-YEAR DESIGN STUDIO II  3 Credit Hours
A continued exploration into ways of understanding, designing, and representing architecture. Through design exercises, students learn the strategies, principles, theories, and tools that architects use to organize, shape, and interpret the built environment. Emphasis is placed on material, enclosure, and architectural scale.
Prerequisite: ARCH 10101 and Architecture Major.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter
ARCH 10111  HISTORY OF ARCHITECTURE I  3 Credit Hours
History of architecture from pre-history through the Gothic period.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

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

ARCH 20112  HISTORY OF ARCHITECTURE II  3 Credit Hours
History of architecture from the Medieval era through the 19th century.
Prerequisite: Architecture major; or Architectural Studies major or minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 20113  HISTORY OF ARCHITECTURE III  3 Credit Hours
A history of architecture in the 20th century.
Prerequisite: ARCH 20112; and Architecture or Architectural Studies
major or Architectural Studies minor.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 20201  BEYOND WESTERN ARCHITECTURE  3 Credit Hours
Course introduces students to the broad realm of contributions to world
architecture made by cultures and civilizations that were not in the
traditional sphere of Western/European influence.
Prerequisite: ARCH 10111 and ARCH 20112; and Architecture major or
Architectural Studies major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 20301  INTRODUCTION TO BUILDING STRUCTURES  3 Credit Hours
An introduction to building structures, statics, strength of materials,
analysis for shear-moment-displacement and loads. Includes dead-live-
wind-earthquake and building code requirements for structural safety.
Prerequisite: MATH 12011 and MATH 12012 (or MATH 12002); and
PHY 13001 or PHY 13011; and Architecture major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 20601  COMPUTER APPLICATIONS IN ARCHITECTURE I  1-3 Credit Hours
Course provides a basic understanding of two-dimensional CAD
operations, parametric building design and building information modeling
(BIM).
Prerequisite: Architecture major or Architectural Studies major or Interior
Design major.
Schedule Type: Studio
Contact Hours: 15-45 other
Grade Mode: Standard Letter

ARCH 20602  COMPUTER APPLICATIONS IN ARCHITECTURE II  1-3 Credit Hours
Principles and practices of three-dimension digital modeling and
rendering, including production of geometric surfaces and forms using
polygon construction, texturing, lighting and rendering.
Prerequisite: ARCH 20601; and Architecture major or Architectural
Studies major or Interior Design major.
Schedule Type: Studio
Contact Hours: 15-45 other
Grade Mode: Standard Letter

ARCH 20603  WORKSHOP: COMPUTER APPLICATIONS  1-3 Credit Hours
(Repeatable for credit) Course provides an exposure to various
fundamental computer topics and their application to architectural
studies. Topics include file management, network applications,
spreadsheets, raster image manipulations, two- and three- dimensional
CAD and computer-aided visualization.
Prerequisite: Architecture major or Interior Design majors.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

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

ARCH 30002  URBAN DESIGN  1 Credit Hour
(Equivalent to ARCH 30012) Lecture component conducted concurrently
with ARCH 30102. Course addresses design of form and space in cities
through study of precedents, traditions and current directions in urban
form-making.
Prerequisite: ARCH 30001 and ARCH 30101.
Corequisite: ARCH 30102.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
ARCH 30012  URBAN DESIGN, FLORENCE, ITALY  1 Credit Hour
(Equivalent to ARCH 30002) Lecture component conducted concurrently with ARCH 30112. Course addresses design of form and space in cities through study of precedents, traditions and current directions in urban form making.
Prerequisite: ARCH 30101.
Corequisite: ARCH 30112.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

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

ARCH 30101  THIRD-YEAR DESIGN STUDIO I  5 Credit Hours
Studio investigation of the simultaneous concerns of program, site, context and materials of construction. Specific emphasis on the understanding of the goals, objectives, intentions and parameters of site/context in design, including cultural influences.
Prerequisite: Architecture major; and approved admission to advanced study (third year).
Corequisite: ARCH 30001.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARCH 30102  THIRD-YEAR DESIGN STUDIO II (ELR)  5 Credit Hours
(Equivalent to ARCH 30112) Studio investigation with specific emphasis on the understanding of the goals, objectives, intentions and parameters of urban design.
Prerequisite: ARCH 30101.
Corequisite: ARCH 30002.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARCH 30112  THIRD-YEAR DESIGN STUDIO II, FLORENCE, ITALY (ELR)  5 Credit Hours
(Equivalent to ARCH 30102) Studio investigation with specific emphasis on understanding of the goals, objectives, intentions and parameters of urban design.
Prerequisite: Special approval.
Corequisite: ARCH 30012.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

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

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

ARCH 40101  FOURTH-YEAR DESIGN STUDIO I  5 Credit Hours
(Slashed with ARCH 50101) Studio investigation of complex formal and spatial constructs addressing the comprehensive concerns of architecture. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.
Prerequisite: ARCH 30102 or ARCH 30112.
Corequisite: ARCH 40001.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

ARCH 40102  INTEGRATED DESIGN STUDIO  5 Credit Hours
(Slashed with ARCH 50102) Studio investigation of the comprehensive concerns and understanding of building systems integration. Knowledge of CAD is required.
Prerequisite: ARCH 40101.
Corequisite: ARCH 40002.
Schedule Type: Studio
Contact Hours: 5 other
Grade Mode: Standard Letter

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

ARCH 40302  STRUCTURAL SYSTEMS II  3 Credit Hours
(Slashed with ARCH 50302) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress and design for masonry and concrete structural members and systems.
Prerequisite: ARCH 40301.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter
ARCH 40401 METHODS AND MATERIALS I 3 Credit Hours
(Slashed with ARCH 50401) Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences.
Prerequisite: Architecture major; and approved admission to advanced study (third year).
Schedule Type: Combined Lecture and Lab
Contact Hours: 6 other
Grade Mode: Standard Letter

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

ARCH 40501 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours
(Slashed with ARCH 50501) Basic principles of ecological design and architecture environmental systems including lighting, sonic and thermal systems.
Prerequisite: PHY 13012; and Architecture major; and approved admission to advanced study (third year); or Interior Design major with special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter

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

ARCH 44611 PORTFOLIO 1 Credit Hour
Architectural drawings and other allied work of the student reproduced and assembled in a professional portfolio suitable for job and graduate application.
Prerequisite: ARCH 40101.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 45210 RENAISSANCE ARCHITECTURE 3 Credit Hours
(Slashed with ARCH 55210) History and theory of renaissance architecture from 1400 until 1600.
Prerequisite: ARCH 10011 and ARCH 10012; or ARCH 10111 and ARCH 20112; or ARTH 22006 and ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45211 BAROQUE ARCHITECTURE 3 Credit Hours
(Slashed with ARCH 55211) History and theory of architecture in Europe from 1600 through 1750.
Prerequisite: ARCH 10011 and ARCH 10012; or ARCH 10111 and ARCH 20112; or ARTH 22006 and ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

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

ARCH 45220 AMERICAN ARCHITECTURE: COLONIAL TO 1900 3 Credit Hours
(Slashed with ARCH 55220) History of American architecture for Spanish, French, Dutch and English colonization through the 19th century.
Prerequisite: ARCH 10011 and ARCH 10012; or ARCH 10111 and ARCH 20112; or ARTH 22006 and ARTH 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

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

ARCH 45240 THE SKYSCRAPER 3 Credit Hours
(Slashed with ARCH 55240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological and technological considerations. Emphasis is placed on the early developments in Chicago and New York, the influence of the international style and the current trends in ultra-high skyscrapers built outside the United States.
Prerequisite: Minimum C grade in ARCH 10111 and ARCH 20112.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45241 ARCHITECTURE OF WORLD’S FAIRS 3 Credit Hours
(Slashed with ARCH 55241) Students investigate world’s fairs and related expositions as a cultural phenomenon, an urban design challenge and an opportunity to advance and popularize ideas in architecture and design.
Prerequisite: ARCH 10011 and ARCH 10012.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
ARCH 45291  SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY  1-3 Credit Hours
(Repeatable for credit) (Slashed with ARCH 55291) Content within architectural history varies per course offering.
Prerequisite: Special approval.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

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

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

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

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

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

ARCH 45621  CURRENT ISSUES IN HISTORIC PRESERVATION  1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55621) Practicing professionals—including architects, planners, developers and government officials—present preservation related work.
Prerequisite: Special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

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

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

ARCH 45630  INTRODUCTION TO LANDSCAPE ARCHITECTURE  1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55630) Introduction to landscape design with emphasis upon the relationship between landscape and buildings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

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

ARCH 45640  DEVELOPING ENVIRONMENTS FOR OLDER ADULTS  1-3 Credit Hours
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 55640) Research of existing built environments and an investigation of the planning design process for the elderly.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter
ARCH 45701  URBAN DESIGN STUDIO I  3-6 Credit Hours
(Repeatable for maximum 6 credit hours) Introduction to urban design and its relationship to other design disciplines through analysis of neighborhoods and definition of comprehensive area improvement programs.
Prerequisite: Special approval.
Schedule Type: Workshop
Contact Hours: 3-6 other
Grade Mode: Standard Letter

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

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

ARCH 45793  WORKSHOP IN URBAN DESIGN AND PLANNING  1-3 Credit Hours
(Repeatable for maximum 3 credit hours) Introduction to urban design and its relationship to other design disciplines through analysis of neighborhoods and definition of comprehensive area improvement programs.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 46991  SUSTAINABLE DESIGN  1 Credit Hour
(Repeatable for credit) Lecture and research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ARCH 46992  FIELD STUDY (ELR)  1-3 Credit Hours
(Repeatable for credit) Course on the nature and utility of theory in urban design, examining the relationship between design ideologies and the theories of the environment on which they are based.
Prerequisite: None.
Schedule Type: Field Experience
Contact Hours: 1-3 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ARCH 46993  WORKSHOP: VARIABLE TOPIC  1-3 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering.
Prerequisite: Approved admission to advanced study (third year).
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Standard Letter

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

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

ARCH 50001  SUSTAINABLE DESIGN  1 Credit Hour
(Repeatable for credit) Special topics in architecture.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

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

ARCH 50003  VARIABLE TITLE WORKSHOP IN ARCHITECTURE  1-6 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-6 other
Grade Mode: Satisfactory/Unsatisfactory

ARCH 50011  FOURTH-YEAR DESIGN STUDIO I  5 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.
Prerequisite: ARCH 30102 or ARCH 30112; and Graduate standing.
Corequisite: ARCH 50001.
Schedule Type: Workshop
Contact Hours: 5 other
Grade Mode: Standard Letter

ARCH 50012  INTEGRATED DESIGN STUDIO  5 Credit Hours
(Repeatable for credit) Workshop topic varies per course offering. Special emphasis on understanding the conservation of the natural environment. Knowledge of CAD is required.
Prerequisite: Graduate standing.
Corequisite: ARCH 50002.
Schedule Type: Workshop
Contact Hours: 5 other
Grade Mode: Standard Letter
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Schedule Type</th>
<th>Contact Hours</th>
<th>Grade Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 50301</td>
<td>STRUCTURAL SYSTEMS I</td>
<td>3</td>
<td>A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on elastic materials, allowable stresses and design for wood and steel structural members and systems.</td>
<td>Graduate standing.</td>
<td>Combined Lecture and Lab</td>
<td>6</td>
<td>Standard Letter</td>
</tr>
<tr>
<td>ARCH 50302</td>
<td>STRUCTURAL SYSTEMS II</td>
<td>3</td>
<td>A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress, and design for masonry and concrete structural members and systems.</td>
<td>Graduate standing.</td>
<td>Combined Lecture and Lab</td>
<td>3</td>
<td>Standard Letter</td>
</tr>
<tr>
<td>ARCH 50401</td>
<td>METHODS AND MATERIALS I</td>
<td>3</td>
<td>Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences.</td>
<td>Graduate standing.</td>
<td>Combined Lecture and Lab</td>
<td>6</td>
<td>Standard Letter</td>
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<tr>
<td>ARCH 50402</td>
<td>METHODS AND MATERIALS II</td>
<td>3</td>
<td>Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale, including allied systems and building materials. Introduction to construction contract documents.</td>
<td>Graduate standing.</td>
<td>Combined Lecture and Lab</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ARCH 50501</td>
<td>ENVIRONMENTAL TECHNOLOGY I</td>
<td>3</td>
<td>Basic principles of ecological design and architecture environmental systems including lighting, sonic and thermal systems.</td>
<td>PHY 13012; and Architecture major; and approved admission to advanced study (third year); and graduate standing.</td>
<td>Combined Lecture and Lab</td>
<td>4.5</td>
<td>Standard Letter</td>
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<tr>
<td>ARCH 50502</td>
<td>ENVIRONMENTAL TECHNOLOGY II</td>
<td>3</td>
<td>Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.</td>
<td>Graduate standing.</td>
<td>Combined Lecture and Lab</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ARCH 55101</td>
<td>FIFTH-YEAR DESIGN STUDIO I</td>
<td>6</td>
<td>Students investigate a new scale of environmental issues that integrate both architectural and urban planning. Included are site visits, data collection, design of a master plan and an architectural form response to a segment of the total conceptual plan.</td>
<td>Graduate standing.</td>
<td>Studio</td>
<td>6</td>
<td>Standard Letter</td>
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<tr>
<td>ARCH 55210</td>
<td>RENAISSANCE ARCHITECTURE</td>
<td>3</td>
<td>History and theory of Renaissance architecture from 1400 until 1600.</td>
<td>Graduate standing.</td>
<td>Lecture</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ARCH 55211</td>
<td>BAROQUE ARCHITECTURE</td>
<td>3</td>
<td>History and theory of architecture in Europe from 1600 through 1750.</td>
<td>Graduate standing.</td>
<td>Lecture</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ARCH 55213</td>
<td>20TH CENTURY ARCHITECTURAL HISTORY</td>
<td>3</td>
<td>History and theory of architecture during the 20th century.</td>
<td>Graduate standing.</td>
<td>Lecture</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ARCH 55220</td>
<td>AMERICAN ARCHITECTURE: COLONIAL TO 1900</td>
<td>3</td>
<td>History of American architecture for Spanish, French, Dutch and English colonization through the 19th century.</td>
<td>Graduate standing.</td>
<td>Lecture</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>ARCH 55230</td>
<td>FRANK LLOYD WRIGHT</td>
<td>3</td>
<td>Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history.</td>
<td>Graduate standing.</td>
<td>Lecture</td>
<td>3</td>
<td>Standard Letter</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
<td>Grade Mode</td>
<td>Prerequisite</td>
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<td>ARCH 55240</td>
<td>THE SKYSCRAPER</td>
<td>3</td>
<td>Credit Hours</td>
<td>(Slashed with ARCH 45240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological and technological considerations. Emphasis is placed on the early developments in Chicago and New York, the influence of the international style and the current trends in ultra-high skyscrapers built outside the United States. <strong>Prerequisite:</strong> Minimum C grade in ARCH 10111 and ARCH 20112; and graduate standing. <strong>Schedule Type:</strong> Lecture <strong>Contact Hours:</strong> 3 lecture <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55241</td>
<td>ARCHITECTURE OF WORLD’S FAIRS</td>
<td>3</td>
<td>Credit Hours</td>
<td>(Slashed with ARCH 45241) Students investigate world's fairs and related expositions as a cultural phenomenon, an urban design challenge and an opportunity to advance and popularize ideas in architecture and design. <strong>Prerequisite:</strong> Graduate standing. <strong>Schedule Type:</strong> Seminar <strong>Contact Hours:</strong> 3 lecture <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55291</td>
<td>SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY</td>
<td>1-3</td>
<td>Credit Hours</td>
<td>(Repeatable for credit) (Slashed with ARCH 45291) Content within architectural history varies per course offering. <strong>Prerequisite:</strong> Graduate standing and special approval. <strong>Schedule Type:</strong> Seminar <strong>Contact Hours:</strong> 1-3 other <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55391</td>
<td>SEMINAR: STRUCTURES III</td>
<td>1-3</td>
<td>Credit Hours</td>
<td>(Repeatable for credit) (Slashed with ARCH 45391) A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long span and high rise structures. Computer analysis is required. <strong>Prerequisite:</strong> Graduate standing. <strong>Schedule Type:</strong> Seminar <strong>Contact Hours:</strong> 1-3 other <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55491</td>
<td>SEMINAR: METHODS AND MATERIALS III</td>
<td>1-3</td>
<td>Credit Hours</td>
<td>(Repeatable for credit) (Slashed with ARCH 45491) Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required. <strong>Prerequisite:</strong> Graduate standing. <strong>Schedule Type:</strong> Seminar <strong>Contact Hours:</strong> 1-3 other <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55591</td>
<td>SEMINAR: ENVIRONMENTAL TECHNOLOGY III</td>
<td>1-3</td>
<td>Credit Hours</td>
<td>(Repeatable for credit) (Slashed with ARCH 45591) Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques, etc. <strong>Prerequisite:</strong> Graduate standing. <strong>Schedule Type:</strong> Seminar <strong>Contact Hours:</strong> 1-3 other <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55601</td>
<td>ADVANCED COMPUTER APPLICATIONS</td>
<td>1-3</td>
<td>Credit Hours</td>
<td>(Repeatable for maximum 3 credit hours) (Slashed with ARCH 45601) Course discusses advanced visualization techniques such as raytracing, radiosity and animation. Presents a variety of presentation issues and options. <strong>Prerequisite:</strong> Graduate standing. <strong>Schedule Type:</strong> Combined Lecture and Lab <strong>Contact Hours:</strong> 1-3 other <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55620</td>
<td>INTRODUCTION TO PRESERVATION</td>
<td>1-3</td>
<td>Credit Hours</td>
<td>(Repeatable for maximum 3 credit hours) (Slashed with ARCH 45620) An overview of preservation, including building analysis, conservation, adaptive reuse, economic benefits of preservation and preservation planning as a revitalizing strategy. <strong>Prerequisite:</strong> Graduate standing and special approval. <strong>Schedule Type:</strong> Lecture <strong>Contact Hours:</strong> 1-3 lecture <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55621</td>
<td>CURRENT ISSUES IN HISTORIC PRESERVATION</td>
<td>1</td>
<td>Credit Hours</td>
<td>(Repeatable for maximum 3 credit hours) (Slashed with ARCH 45621) Practicing professionals—including architects, planners, developers and government officials—present preservation related work. <strong>Prerequisite:</strong> Graduate standing and special approval. <strong>Schedule Type:</strong> Lecture <strong>Contact Hours:</strong> 1-3 lecture <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55625</td>
<td>EXPLORING HISTORIC STRUCTURES</td>
<td>3</td>
<td>Credit Hours</td>
<td>(Slashed with ARCH 45625) Course provides students with the skills and opportunity to document an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Covers recording, documentation and assessment of the historic structure, implementing the guidelines established by the Getty Conservation Institute, including history, purpose, means, methods and field work. <strong>Prerequisite:</strong> Major in the College of Architecture and Environmental Design; and graduate standing. <strong>Schedule Type:</strong> Laboratory, Lecture <strong>Contact Hours:</strong> 1.2 lecture, 3.6 lab <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55627</td>
<td>PRESERVATION TECHNOLOGY</td>
<td>3</td>
<td>Credit Hours</td>
<td>(Slashed with ARCH 45627) Study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration. <strong>Prerequisite:</strong> Minimum C grade in ARCH 40401 and ARCH 40402; and graduate standing. <strong>Schedule Type:</strong> Lecture <strong>Contact Hours:</strong> 3 lecture <strong>Grade Mode:</strong> Standard Letter</td>
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<tr>
<td>ARCH 55630</td>
<td>INTRODUCTION TO LANDSCAPE ARCHITECTURE</td>
<td>1-3</td>
<td>Credit Hours</td>
<td>(Repeatable for maximum 3 credit hours) (Slashed with ARCH 45630) Introduction to landscape design with emphasis upon the relationship between landscape and buildings. <strong>Prerequisite:</strong> Graduate standing. <strong>Schedule Type:</strong> Lecture <strong>Contact Hours:</strong> 1-3 lecture <strong>Grade Mode:</strong> Standard Letter</td>
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</tbody>
</table>
ARCH 55631  SITE ANALYSIS AND DESIGN  1-3 Credit Hours  
(Repeatable for maximum 3 credit hours)(Slashed with ARCH 45631)  
Analysis of environmental factors as a basis for site selection and site  
planning.  
Prerequisite: Graduate standing.  
Schedule Type: Lecture  
Contact Hours: 1-3 lecture  
Grade Mode: Standard Letter  

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

ARCH 55707  REPRESENTATION IN DESIGN  1-3 Credit Hours  
(Repeatable for maximum 3 credit hours) Course on the nature of  
communication in design and the representational tools the designer  
uses to give form to abstract ideas and converse with clients and  
colleagues.  
Prerequisite: Graduate standing.  
Schedule Type: Lecture  
Contact Hours: 1-3 lecture  
Grade Mode: Standard Letter  

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

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

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

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

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

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

ARCH 60102  GRADUATE DESIGN STUDIO II  3-6 Credit Hours  
Independent design project, completed under the direction of an  
individual adviser selected from the graduate faculty.  
Prerequisite: ARCH 60101 and ARCH 60301; and graduate standing.  
Corequisite: ARCH 60922.  
Schedule Type: Studio  
Contact Hours: 6-9 other  
Grade Mode: Standard Letter-IP  

ARCH 60103  GRADUATE DESIGN STUDIO III  6-9 Credit Hours  
Capstone studio (or master’s project) aimed at further investigating  
building design issues both at a greater depth of complexity and by  
focusing on particular design aspects or areas of concentration.  
Prerequisite: ARCH 60102 and ARCH 60150 and ARCH 60922; and  
graduate standing.  
Schedule Type: Studio  
Contact Hours: 6-9 other  
Grade Mode: Standard Letter  

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

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

ARCH 60113  GRADUATE DESIGN CONTEXT STUDIO  3-6 Credit Hours  
Studio investigation that includes consideration of program, site, context,  
materiality and tectonics. Specific emphasis on understanding the  
influences of site, context and urban design, including the role of social  
and cultural influences on the built environment.  
Prerequisite: Graduate standing.  
Schedule Type: Studio  
Contact Hours: 3-6 other  
Grade Mode: Standard Letter
ARCH 60114  GRADUATE DESIGN SYSTEMS STUDIO  3-6 Credit Hours
Studio investigation of comprehensive design concerns, including the integration of building systems and implementation of sustainable strategies.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter
ARCH 60150  PROJECT PROGRAMMING  2-3 Credit Hours
Study and discussion of the notion of program in architecture and the principles of project programming. Case study analysis and preparation of a comprehensive program for an architectural project.
Prerequisite: ARCH 60101 and ARCH 60301; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2-3 lecture
Grade Mode: Standard Letter
ARCH 60211  GRADUATE GLOBAL HISTORY OF ARCHITECTURE I  3 Credit Hours
Global history of architecture from Neolithic times through the 16th Century.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
ARCH 60212  GRADUATE GLOBAL HISTORY OF ARCHITECTURE II  3 Credit Hours
Global history of architecture from the 17th century to the early 21st century.
Prerequisite: ARCH 60211; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
ARCH 60301  THEORIES OF ARCHITECTURE  1-3 Credit Hours
(Repeatable for maximum 3 credit hours) In-depth analysis and discussion of contemporary architectural theories. Critical evaluation of major authors and architectural projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter
ARCH 60601  TOOLS OF REPRESENTATION  3 Credit Hours
Introduction to the software used in the digital environment for modeling and representing architectural schemes. Course covers software interface, x,y,z coordinates and navigation, Nurbs modeling and mesh modeling. Enables students to design in three-dimension and represent massing studies, building details and develop architectural elements and site context.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter
ARCH 60602  TOOLS OF FABRICATION  3 Credit Hours
Course covers advanced three-dimensional modeling tools and the different methods for outputting digital models into the physical environment. Includes three-dimension printing, laser cutting, CNC milling and vacuum forming.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter
ARCH 60603  TOOLS OF SIMULATION  3 Credit Hours
Course covers two-dimensional and three-dimensional simulation platforms and the theory behind the tools to generate and simulate architectural ideas and environments. Animation techniques and robotic integration operate as the bridge between the digital and the physical environment.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter
ARCH 60604  TOOLS OF CODING  3 Credit Hours
Course covers visual parametric software and coding languages to generate and develop architectural ideas. Integrates the tools and theory of coding and parametric software and their evolution in the architecture field.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter
ARCH 60922  METHODS OF INQUIRY IN ARCHITECTURAL STUDIES  2 Credit Hours
(Cross-listed with AED 60922 and LARC 60922) Provides a comprehensive coverage of architectural inquiry techniques, including qualitative and quantitative research methods and critical-thinking skills to help students better conduct and understand research.
Prerequisite: ARCH 60101 and ARCH 60301; and graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
ARCH 65001  PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT  2-4 Credit Hours
Introduction to the economic, social, ethical and legal impact on/of development projects in both the public and the private sectors. Computer applications and case-studies analysis are required.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2-4 lecture
Grade Mode: Standard Letter
ARCH 65002  PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW  2 Credit Hours
Course surveys laws relating to the practice of architecture and to dispute resolution, with emphasis on contract laws contrasted with laws of negligence and the standard of care in the profession. The planning law component surveys land use control mechanisms as seen through zoning, variances and practical applications.
Prerequisite: Architecture major and graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
ARCH 65003  PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT  2-3 Credit Hours
Course discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the context of the profession as business.
Prerequisite: ARCH 65002; and Architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 2-3 Other
Grade Mode: Standard Letter

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

ARCH 66892  PRACTICUM  1-3 Credit Hours
(Repeatable for credit) Practicum in the field.
Prerequisite: Special approval.
Schedule Type: Practical Experience
Contact Hours: 1-3 Other
Grade Mode: Standard Letter

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

ARCH 67510  SUSTAINABLE BUILDING CONSTRUCTION I  3 Credit Hours
First course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to green building and sustainable design of the built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on construction site issues. Provides a comprehensive review of impact of site on construction and building design on the site and its resources. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment.
Prerequisite: ENGR 67000; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 Lecture
Grade Mode: Standard Letter

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

Architecture and Environmental Design (AED)

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

AED 10001  DESIGN THINKING I  2 Credit Hours
Provides a broad, interdisciplinary introduction to design culture and the visualization of ideas and information through observations of the object in space.
Prerequisite: Architecture, Architectural Studies or Interior Design major.
Corequisite: AED 10101.
Schedule Type: Lecture
Contact Hours: 2 Lecture
Grade Mode: Standard Letter
AED 10002  DESIGN THINKING II  2 Credit Hours
Explores the role of design in society with a focus on purpose and
meaning of form and space in relation to the human body.
Prerequisite: AED 10001; and Architecture, Interior Design, or
Architectural Studies major.
Corequisite: AED 10102.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

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

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

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

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

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

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

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

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

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

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

Construction Management (CMGT)

CMGT 10001  INTRODUCTION TO CONSTRUCTION MANAGEMENT  3
Credit Hours
Serves to introduce the basic terms, concepts, procedures and current
trends in the construction industry.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
CMGT 11044  CONSTRUCTION SAFETY  3 Credit Hours
The theories and principles of construction safety and health applied
to real-world setting. Upon completion of course materials and required
attendance hours, students receive their OSHA 30 certification.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 11071  CONSTRUCTION MATERIALS AND METHODS I  3 Credit
Hours
An introduction to principles of building construction, including
preparation for the structures and environmental control sequences.
Includes a more detailed and systematic look at wood light-frame
construction.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

CMGT 21071  CONSTRUCTION MATERIALS AND METHODS II  3 Credit
Hours
Ties together steel and concrete structural systems and the integration of
building service systems, with a focus on the construction and detailing
of building enclosure systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 22200  CONSTRUCTION DOCUMENT READING  3 Credit Hours
The reading and understanding of the drawings that are used to
communicate information about commercial and residential buildings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 27210  SUSTAINABILITY IN THE BUILT ENVIRONMENT  3 Credit Hours
With broad coverage including architecture, engineering, and
construction, this course nevertheless delivers detailed information on
all aspects of the green building process, from materials selection to
building systems and more.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab, 0 other
Grade Mode: Standard Letter

CMGT 31023  CONSTRUCTION SURVEYING  3 Credit Hours
The study of surveying, including fieldwork, using state-of-the-art
equipment and its relationship to the construction documents.
Prerequisite: CMGT 22200.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

CMGT 31033  MECHANICAL SYSTEMS  3 Credit Hours
An overview of mechanical systems in commercial and residential
buildings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31040  ELECTRICAL SYSTEMS FOR CONSTRUCTION
MANAGERS  3 Credit Hours
An overview of electrical systems in commercial and residential
buildings.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31044  ADVANCED CONSTRUCTION SAFETY AND
MANAGEMENT  3 Credit Hours
Course enables students to be able to properly manage the construction
safety techniques and practices they learned in CMGT 11044. Course
provides the opportunity for students to learn how to utilize management
skills to lead and implement an effective construction safety program.
Prerequisite: CMGT 11044.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31045  CONSTRUCTION RISK MANAGEMENT  3 Credit Hours
Course provides an in-depth study of various risks associated with
construction projects, and how those risks affect the construction
industry. Topics of discussion include analytical and management
techniques used to identify, analyze and respond to risks. Students
review actual legal case studies and develop written opinion papers.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 31046  INTRODUCTION TO INSURANCE AND WORKER'S
COMPENSATION  3 Credit Hours
Introduction to construction-related insurance products and worker's
compensation practices and policies. Course provides the understanding
of the legal, management and costing implications associated with each
of these, both prior to and during a construction project.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
CMGT 32001  PROPOSAL DEVELOPMENT AND ANALYSIS  3 Credit Hours
(Repeatable for credit) Students create and combine project management, safety and quality control plans to prepare quantity takeoffs and schedule for a construction project, in the form of a construction proposal and presentation. Further analysis is done on general construction proposals.
Prerequisite: CMGT 10001; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 33092  CONSTRUCTION MANAGEMENT INTERNSHIP (ELR) (WIC)  1-3 Credit Hours
(Repeatable for credit) Supervised work-study experience in an approved construction-related business that is relative to a student's program. The course can be taken for 3 credit hours in the semester for full time employment (450+ total hours) or 2 credit hour for part-time employment (300-450 total hours). Repeatable to maximum of 6 credits. To repeat the course for credit, the student must assume a different position or responsibilities if employed by the same organization, or the student must be employed by a different company.
Prerequisite: Minimum 2.250 overall GPA; and Construction Management major or minor; and sophomore standing.
Schedule Type: Practical Experience
Contact Hours: 10-30 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement, Writing Intensive Course

CMGT 33111  INTRODUCTION TO BUILDING STRUCTURES  3 Credit Hours
Introduction to Building Structures covers the basic concepts of vector mechanics and statics with their application to the relationship between applied forces and internal effects as utilized in either the selection or investigation of structural members subjected to various loading conditions.
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture, 0 lab
Grade Mode: Standard Letter

CMGT 37295  SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT  1-3 Credit Hours
Analysis of significant and current issues in construction management not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

CMGT 41040  CONSTRUCTION ESTIMATING I  3 Credit Hours
( Slashed with CMGT 51040) Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Students must have the ability to read and understand construction drawings.
Prerequisite: CMGT 22200.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 41041  CONSTRUCTION ESTIMATING II  3 Credit Hours
( Slashed with CMGT 51041) Course covers putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets, including Excel, to automate estimating functions.
Prerequisite: CMGT 41040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 41047  FUNDAMENTALS OF INDUSTRIAL AND CONSTRUCTION HYGIENE  3 Credit Hours
Focuses on the environmental, community and occupational health issues within facilities and construction sites. Course provides the opportunity for students to recognize, evaluate and control occupational hazards.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 41048  OCCUPATIONAL SAFETY AND HEALTH LAW  3 Credit Hours
Course focuses on general legal doctrine and practical considerations of the Occupational Safety and Health Act (OSHA). Covers the scope of the act, duties under the act, enforcement, adjudication and OSHA-related litigation.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42030  BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT  3 Credit Hours
This course is intended to apply Building Information Modeling tools in a meaningful manner within the field of Construction Management. The course will progress through the core concepts of widely used VDC tools: Sketchup, Revit, Navisworks. The key areas of focus will be conceptualizing projects, quantity takeoff, scheduling, and constructability review. Class time will involve hands-on training and exercises that will simulate real-world situations and deadlines. Complexity levels in the models will be minimized to ensure focus on concepts. Students will have multiple opportunities to hone their presentation skills with their projects through the course progression.
Prerequisite: CMGT 22200.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42050  INTERNATIONAL CONSTRUCTION MANAGEMENT  3 Credit Hours
Course focuses on the culture and management of international design and construction operations, with an emphasis on business development, financing, planning, contracts and negotiations, special construction techniques in adverse environments, procurement and logistics. A short-term study abroad trip is included in the course.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
CMGT 42051  ALTERNATIVE ENERGY SYSTEMS IN BUILDING DESIGN  3 Credit Hours
Course focuses on the construction application of alternative mechanical, electrical and plumbing systems in the built environment. Emphasis on energy efficient systems, energy conservation, cost benefits, building issues and construction techniques to develop these systems.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42052  MECHANICAL AND ELECTRICAL ESTIMATING  3 Credit Hours
Course focuses on estimating mechanical, electrical, plumbing and fire protection systems for the built environment. Covers detailed estimating practices of mechanical systems, including indirect costs, direct costs, bidding strategies, piping, pumps, plumbing systems, fire protection, HVAC, ductwork, insulation, automatic temperature controls, supports and manpower.
Prerequisite: CMGT 31033 and CMGT 31040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42053  SUBCONTRACTOR LEADERSHIP AND PRACTICES  3 Credit Hours
Course focuses on the leadership, operations and overall management of construction subcontractor companies. Emphasis on how subcontractor leaders can avoid mistakes and manage risk to make their scopes of work run more intelligently, effectively and efficiently.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42054  CIVIL ESTIMATING  3 Credit Hours
Course provides an in-depth review and application of civil construction estimating techniques and technology associated with civil estimating practices. Course covers site work, site utilities, substructures and heavy equipment estimating.
Prerequisite: CMGT 10001 and CMGT 41040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42055  CIVIL UTILITY SYSTEMS  3 Credit Hours
Course discusses the installation, construction, renewal, estimating and management of underground utility systems. Maintains an emphasis on minimal soil and environmental disturbance.
Prerequisite: CMGT 10001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42056  SOILS AND MATERIALS  3 Credit Hours
Building on previous knowledge of construction, students explore the nature of soils and how they can influence construction operations, soil safety, soils within the construction contract, soil classifications, soil strengths and specification sections tied to soils and materials.
Prerequisite: CMGT 10001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

CMGT 42105  CONSTRUCTION CONTRACTS AND LAW  3 Credit Hours
(Slashed with CMGT 52105) Course covers the fundamentals of construction contracts and law; the impact of information technology on contracts and contracting; and the effect of contracts and law on the management, administration and costs of construction work.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 42107  CONSTRUCTION SCHEDULING  3 Credit Hours
(Slashed with CMGT 52107) The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling are utilized.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 43096  INDIVIDUAL INVESTIGATION IN CONSTRUCTION MANAGEMENT  1-3 Credit Hours
(Repeatable for credit) Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.
Prerequisite: Junior standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter

CMGT 43099  CONSTRUCTION MANAGEMENT CAPSTONE  3 Credit Hours
The application of all previous construction management courses and experiences to ensure all major learning objectives have been obtained, and that these learning objectives can be applied to performance similar to industry practices.
Prerequisite: CMGT 41041 and CMGT 42107; and senior standing.
Schedule Type: Lecture, Project or Capstone
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 51040  CONSTRUCTION ESTIMATING I  3 Credit Hours
(Slashed with CMGT 51040) Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Students must have the ability to read and understand construction drawings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 51041  ADVANCED ESTIMATING  3 Credit Hours
(Slashed with CMGT 41041) Course covers putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets, including Excel, to automate estimating functions.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
CMGT 52105  CONSTRUCTION CONTRACTS AND LAW  3 Credit Hours
(Slashed with CMGT 42105) Course covers the fundamentals of construction contracts and law; the impact of information technology on contracts and contracting; and the effect of contracts and law on the management, administration and costs of construction work.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 52107  CONSTRUCTION SCHEDULING  3 Credit Hours
(Slashed with CMGT 42107) The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling are utilized.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 52110  ADVANCED CONSTRUCTION MANAGEMENT  3 Credit Hours
A comprehensive application of construction management principles and practices to various situations and projects according to construction industry methods and performance standards.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62030  BUILDING INFORMATION MODELING FOR CONSTRUCTION MANAGEMENT  3 Credit Hours
Course reinforces and investigate the usage of building information modeling (BIM) as a construction management tool. Students create BIM models, with scheduling and cost loading, to understand how BIM usage is maximized within the built environment. Student utilizes software applications to create the BIM model and integrate the construction schedule and estimate. Students also perform research on the application of BIM in the industry.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62040  CONSTRUCTION METHODS IMPROVEMENTS  3 Credit Hours
A focused study of the philosophy and principles of quality management as applied to the construction industry. Course presents a project-based approach to the principles and practices of Total Quality Management (TQM) in construction projects and the application of TQM and other quality measures during different phases of the construction process.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62050  INTERNATIONAL CONSTRUCTION MANAGEMENT  3 Credit Hours
Topics include operating and sustaining an international business or business presence, the global market, project funding, case studies and best practices. Course includes project-specific case studies.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62060  NEGOTIATION IN THE BUILT ENVIRONMENT  3 Credit Hours
Examination of negotiation theories, strategies and tactics as applied to transactions in the construction and technological environments. Establishment of win-win environment in dealing with the project parties by adopting creative means to solve problems and resolve disputes. Practice through negotiation case studies, scenarios and role playing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

CMGT 62795  SPECIAL TOPICS IN CONSTRUCTION MANAGEMENT  1-4 Credit Hours
Analysis of significant and current issues in construction management not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter
CMGT 67296   INDIVIDUAL INVESTIGATION IN CONSTRUCTION MANAGEMENT   1-3 Credit Hours
Independent study carried out by a student under the supervision of a faculty member. Subject content, objectives, assignments and evaluation methods may vary.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-9 other
Grade Mode: Standard Letter/IP

CMGT 67320   APPLIED SUSTAINABILITY IN CONSTRUCTION MANAGEMENT   3 Credit Hours
Investigation of strategies and methods used by construction managers and others to assist in developing sustainable built environments.
Course takes a close look at standards for environmentally sustainable construction and at the application of best management practices for construction activities. Focus is on LEED certification, international standards on environmental management systems and other established criteria, guidelines, standards and tools associated with green building.
Provides an in-depth discussion and practical application of LEED assessment, guidelines and standards for various building sectors.
Includes a major individual design project/case study involving research in green construction and design on a particular construction project, along with the application of LEED guidelines, assessment and methods to the project.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

Healthcare Design (HCD)

HCD 60000   HEALTHCARE DESIGN STUDIO   6 Credit Hours
Course integrates and applies expert knowledge in healthcare design. Projects demonstrate solutions through design, case study analysis and in collaboration with industry and healthcare partners.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

HCD 60092   PRACTICAL EXPERIENCE   1 Credit Hour
Course offers students multiple options that allow for first-hand experience with a healthcare facility design project or environment; and to develop professional communication skills, job search skills and how to navigate starting a career in healthcare design.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 1 other
Grade Mode: Standard Letter

HCD 60100   HEALTHCARE SYSTEMS WORKSHOP   3 Credit Hours
Course integrates the knowledge-base gained in other core courses into design evaluations and solutions, helping students apply what they have learned in practice. Focus is on learning about other healthcare systems, design trends and research applications. Students deliver a design project and/or a report of the field trip.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Standard Letter

HCD 60101   HEALTHCARE DESIGN WORKSHOP: CULTURE AND ETHICS   3 Credit Hours
Course integrates the knowledgebase gained in other courses into design evaluations and solutions, helping students apply what they have learned in practice. Focus is on a small design project.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 3 other
Grade Mode: Standard Letter

HCD 61099   MASTER'S PROJECT PREPARATION   3 Credit Hours
Focuses on an individual student's defined master's project topic. Students will explore and evaluate precedents. They will conduct a guided investigation of specific issue and parameters for a master's project, including the application of evidence-based practices in healthcare design. This course will be overseen by the course instructor in collaboration with design practitioners.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Project or Capstone
Contact Hours: 3 other
Grade Mode: Standard Letter

HCD 62099   MASTER'S PROJECT STUDIO   6 Credit Hours
Focused on an individual student's defined master's project topic. Projects will include site selection, site analysis, and demonstrate creative solutions through design. The course concludes in the design of the topic established in Master's Project Preparation. This is the culminating course for the master's degree in Healthcare Design. This course will be overseen by the course instructor in collaboration with design practitioners.
Prerequisite: HCD 61099; and graduate standing; and special approval.
Schedule Type: Project or Capstone, Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

HCD 63001   EVIDENCE-BASED DESIGN IN HEALTHCARE   2 Credit Hours
Course offers the knowledge and skills required for applied research, and the use of credible data in the design decision-making process. Encompasses the evidence-based design (EBD) process, and how it applies in projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63002   HEALTHCARE FACILITIES   2 Credit Hours
An investigation of the history and types of healthcare facilities, design guidelines and basic planning and programming requirements for their planning and design.
Prerequisite: Graduate standing; and special approval.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63003   ENVIRONMENTAL SYSTEMS AND MATERIALS IN HEALTHCARE   2 Credit Hours
An investigation of architectural finishes, furnishings, mechanical systems and lighting in healthcare settings.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
HCD 63004 ENVIRONMENTS OF CARE AND PATIENT POPULATIONS
2 Credit Hours
Course explores the functional, operational and person psychosocial requirements for different patient populations. Focus is on how design can respond to specific patient population needs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

HCD 63005 PATIENT SAFETY AND SYSTEMS THINKING 2 Credit Hours
Course introduces systems engineering initiative for patient safety as a major interdisciplinary approach known as systems thinking. Covers the basics of human factors in healthcare and the interactive relationship between humans and the environment; including the factors contributing to patient safety in healthcare settings, and the role environments play in patient safety.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

Interior Design (ID)
ID 10112 INTERIOR DESIGN STUDIO I 4 Credit Hours
A studio course that introduces students to foundational concepts of interior space. Topics will include studies of room and its contents; color theory and interior color; design and human behavior; representation through sketching, orthographic drawing, collage, and model building; and digital techniques. Design thinking and iterative design work-process will be emphasized.
Prerequisite: AED 10101 and ID 14011.
Pre/corequisite: ID 10601.
Schedule Type: Studio
Contact Hours: 8 other
Grade Mode: Standard Letter

ID 10601 REPRESENTATION AND VISUALIZATION I 2 Credit Hours
This course introduces analog and digital representation and visualization skills and tools as they relate to the design of interior environments. Students will gain an understanding of and be able to apply knowledge and skills of visualization, observation, documentation, introductory orthographic representation, and graphic design.
Prerequisite: AED 10101.
Pre/corequisite: ID 10112.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ID 14011 INTRODUCTION TO INTERIOR DESIGN 1 Credit Hour
Introduction to a broad range of interior design issues including environmental, ecological, aesthetic, social, global, spatial, ethical and technical, and addresses the needs of the human being related to interior design practice. Students acquire knowledge and understanding of significant aspects in interior design and diverse options within the profession, which helps them to identify their career paths in interior design.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ID 14012 DESIGN AND HUMAN BEHAVIOR 3 Credit Hours
Introduces the concepts of human factors, the way in which humans relate to the physical environment within cultural milieus, and investigates applications of these factors in the design of interiors with consideration of specialized populations.
Prerequisite: ID 14011 with a minimum C grade.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 14501 STUDIO PROBLEMS IN INTERIOR DESIGN I 4 Credit Hours
Studio problems in interior design is a course for the beginning student whose interest is in interior space design.
Prerequisite: None.
Schedule Type: Lecture, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ID 14512 INTERIOR DESIGN GRAPHICS I 3 Credit Hours
Studio based course introducing concepts of architectural drawing and sketching techniques including plan, elevation, section and perspective.
Prerequisite: Interior design major.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

ID 20012 GLOBAL HISTORY OF INTERIORS 3 Credit Hours
Global history of interiors from the 17th-century to the present. Interiors will be examined alongside developments in furnishings, fine and decorative arts, and architecture. The influence of culture, technology, geography, economics, politics, and style will be investigated.
Prerequisite: ARCH 10011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 20221 INTERIOR DESIGN STUDIO II 5 Credit Hours
A studio course that builds on the foundation that students have developed in ID Studio I. Students will engage in making an idea, and develop an understanding of materials, joints, assembly, and their interrelationships. The studio will focus on an understanding of the room in the context of interior design with an emphasis on design process, creative thinking, and student agency (analysis, iteration, evaluation and groups crits). Throughout the semester students will gain a familiarity of both analog and digital shop tools.
Prerequisite: ID 10112 and ID 10601.
Pre/corequisite: ID 20602 and ID 20401.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter
ID 20232  INTERIOR DESIGN STUDIO III  5 Credit Hours
This studio course reflects a continuation in the development of skills, exploration, technical knowledge, and experimentation through design. Students will expand their ability to program spaces for human habitation, ‘the body inside’, and develop the initial skills for detailing, fabricating, and documenting interior components beyond schematic design. The objective of this course is to provide the opportunity to balance technical considerations with creative ambitions through design projects by focusing on analysis, synthesis, placemaking, space planning and understanding of volumetric relationships.
Prerequisite: ID 20221 and ID 20602.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 20401  INTERIOR DESIGN METHODS AND MATERIALS I: INTERIOR MATERIALS  3 Credit Hours
The focus of this course is to explore the methods and materials utilized in the design and construction of the interior environment. Topics include the industry standards and requirements that pertain to finishes and materials, composition of various interior materials/finishes, proper methods of application and installation of selected materials.
Prerequisite: ID 10112.
Pre/corequisite: ID 20221 and ID 20602.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 20402  INTERIOR DESIGN METHODS AND MATERIALS II: BUILDING SYSTEMS AND CODES  3 Credit Hours
This course is an introduction to the principles of building construction, systems, assemblies, and building codes and regulations. Topics include: building structural systems, assemblies, environmental comfort, building safety, security, controls, and mechanical, electrical and, plumbing systems that influence and interact with interior design. This course examines the principles, regulations, systems, materials and details that comply with building code and regulations. Study of the principles and practice of sustainable design are continued.
Prerequisite: ID 20401.
Pre/corequisite: ID 20232.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ID 20602  REPRESENTATION AND VISUALIZATION II  2 Credit Hours
The course builds on the fundamental skills developed in Representation and Visualization I. Students are introduced to BIM technology as a design tool, utilizing a variety of three-dimensional representation and rendering techniques that focus on form, light, and materiality. Students will also learn how to effectively document design work three-dimensionally.
Prerequisite: ID 10601.
Pre/corequisite: ID 20221.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ID 24001  INTERIOR DESIGN STUDIO I-SPACE PLANNING AND HUMAN FACTORS  3 Credit Hours
Focuses on space planning and the application of human factors to interior design solutions. Based on knowledge received in ID 14012 Design and Human Behavior, the following areas are incorporated into the studio projects: Americans with Disabilities Act; data gathering; space analysis and synthesis.
Prerequisite: ID 14012 with a minimum C grade.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ID 24002  INTERIOR DESIGN STUDIO II-Detailing and Fabrication  3 Credit Hours
Focus is the understanding of detailing and fabrication in interior design that leads students to have a balanced ability between the creative and the technical abilities in design projects. Studies of architectural and interior design detailing, custom cabinetry, casework, joinery, millwork, fabrication, and FF&E are blended into each of the projects to instill a proficiency in construction execution. Usage of a 3D printer and laser cutter is introduced along with design projects.
Prerequisite: ID 24001 with a minimum C grade.
Schedule Type: Studio
Contact Hours: 6 other
Grade Mode: Standard Letter

ID 24011  METHODS AND MATERIALS I: BUILDING SYSTEMS  3 Credit Hours
Introduction to the principles of building construction and systems. Covers topics related to structural systems in buildings which include: floor, wall and roof systems; environmental comfort and sustainability; safety and security; HVAC; electrical; building control; and conveying systems, that influence and interact with interior design. Designed to advance the student to a higher level of understanding and competence in building technology for interior design.
Prerequisite: ID 14012 with a minimum C grade.
Corequisite: ID 24001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 24012  CODES AND STANDARDS FOR INTERIOR DESIGN  3 Credit Hours
Presents codes, standards and regulations that pertain to the materials and finishes of building interiors, their proper methods of application, installation and maintenance.
Prerequisite: ID 24001 with a minimum C grade.
Corequisite: ID 24002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 24013  HISTORY OF INTERIORS I-ANCIENT TO 15TH CENTURY  3 Credit Hours
Provides a thorough background of the major design periods and traditions of global civilizations from ancient times to the 15th century including the design of furnishings, architecture, interiors, textiles, and the decorative and fine arts. The influences of culture, geography, technology, religion and politics on design are investigated.
Prerequisite: ID 24001 with a minimum C grade.
Corequisite: ID 24002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
ID 24021 INTEGRATED DIGITAL APPLICATIONS I  3 Credit Hours
Prepares students for an ongoing exploration and integration of architectural software to assist with design problems within the interior design practice. Course work covers basic fundamentals of popular architectural programs and enables students to continuously build upon acquired knowledge and skills.
Prerequisite: AED 10102 with a minimum C grade.
Corequisite: ID 24001.
Schedule Type: Laboratory
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ID 24022 3D MODELING AND RENDERING  2 Credit Hours
Introduces fundamental concepts, principles and practices of 3D digital modeling and rendering techniques applicable to design practice. Thorough instruction is given in the production of geometric surfaces and forms using surface and solid modeling tools, texturing, and lighting. Tutorial-based with supporting demonstrations and lectures on the various commands and approaches to interior design and architectural modeling and rendering.
Prerequisite: ID 24001 with a minimum C grade.
Corequisite: ID 24002.
Schedule Type: Laboratory
Contact Hours: 2 lecture, 4 lab
Grade Mode: Standard Letter

ID 24023 FURNITURE DESIGN I-WOOD  3 Credit Hours
Provides experience in design through the fundamentals of hand and machine processes in wood furniture design and fabrication. Projects are designed, planned and constructed by the student according to curricular needs and interests. Students must be admitted to the second year of the interior design program or have approval.
Prerequisite: Interior design major; and special approval.
Pre/corequisite: ID 24001.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ID 24502 STUDIO PROBLEMS IN INTERIOR DESIGN II  4 Credit Hours
Special problems dealing with design of residential and related spaces, traffic flow, placement of furnishings, emphasis on color and textural experience and lighting of space. Practical, integrated approach.
Prerequisite: ID 14501; and interior design major.
Schedule Type: Lecture, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ID 24510 TEXTILES IN THE BUILT ENVIRONMENT  2 Credit Hours
A concise background in textile science is established with a hands-on approach to the evaluation, selection and application of textiles by interior design professionals and architects.
Prerequisite: Interior design major.
Corequisite: ID 34503.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ID 24522 INTERIOR DESIGN GRAPHICS II  3 Credit Hours
Studio based course continuation of ID 14512. Exploration of color, media and graphic representation of interior design materials and environments.
Prerequisite: ID 14501 and ID 14512 and ID 24502.
Schedule Type: Studio
Contact Hours: 3 other
Grade Mode: Standard Letter

ID 30321 INTERIOR DESIGN THEORY  3 Credit Hours
This course is an introduction to theoretical ideas in interior design and explores its conceptual relationships with other disciplines including art, architecture, fashion, environmental psychology, and the social sciences. Topics include: theories of the body in interior space, environmental psychology, sustainability, theories of technology, cultural studies, activist practice, and inclusive design. Readings will be drawn from both the humanities and social sciences.
Prerequisite: ID 20012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ID 30341 INTERIOR DESIGN STUDIO IV  5 Credit Hours
This course is an Introduction to large-scale commercial space design with an emphasis on ideation, branding, space planning, developing design strategies for comprehensive design, office systems furniture planning and development of workstation prototype, producing comprehensive construction documentation, and collaborative design through studio projects and lectures.
Prerequisite: ID 20232.
Pre/corequisite: ID 30603.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 30352 INTERIOR DESIGN STUDIO V  5 Credit Hours
A studio course focusing on the investigation of contexts of interior design practice, and inclusive design. Readings will be drawn from both the humanities and social sciences.
Prerequisite: ID 30321.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 30391 VARIABLE CONTENT SEMINAR IN INTERIOR DESIGN  3 Credit Hours
Intermediate-level topics in global interior design history or theory.
Prerequisite: ID 30321.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter
ID 30403 INTERIOR DESIGN METHODS AND MATERIALS III: LIGHTING AND ACOUSTICS 3 Credit Hours
This course explores the relationships between theory, technical application, social, environmental, and sustainable aspects for designing lighting and acoustical interior environments. The course addresses the fundamental design and technical aspects of the lighting and acoustics industries as they impact interior design.
Prerequisite: ID 24002.
Pre/corequisite: ID 30341.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

ID 30501 PROFESSIONAL PRACTICES I 3 Credit Hours
An overview of the professional practice of interior design and facilitates student’s entry into the profession. Topics include - issue of legal recognition of the profession and licensing; types of business formations; control and management of projects and people; legal and ethical responsibilities; and opportunities within the design profession. Students will learn self-promotion tools like portfolio preparation, and valuable interview skills to uncover how they might position themselves professionally in the rapidly changing discipline of Interior Design.
Prerequisite: ID 30341.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 30603 REPRESENTATION AND VISUALIZATION III 2 Credit Hours
Builds on previous fundamentals taught in Rep Vis I & II, focusing on advanced rendering, and representation techniques. Includes exploration of virtual and augmented reality. Students are also introduced to the fundamentals of Contract Documentation, including annotation, MEP coordination, and detailing.
Prerequisite: ID 20602.
Pre/corequisite: ID 30341 and ID 30403.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 1 lecture, 2 lab
Grade Mode: Standard Letter

ID 34010 DESIGN THEORY AND AESTHETICS 2 Credit Hours
This survey course discusses theories related to interior design and other design disciplines. Topics include environmental aesthetics, visual perception, psychology of design, and other multidisciplinary theories and their relationship to humans in places and time.
Prerequisite: Interior design major; and sophomore standing.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ID 34011 LIGHTING FOR INTERIOR SPACES 3 Credit Hours
Lighting for Interior Spaces is structured to provide the interior design student with the knowledge required to select, design and install the proper lighting in the interior environment. Builds from elementary information to the complex and current technology in the industry.
Prerequisite: ID 24002 with a minimum C grade.
Corequisite: ID 34001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 34012 METHODS AND MATERIALS II-INTERIOR MATERIALS 3 Credit Hours
Explores the methods and materials utilized in the design and construction of the sustainable interior environment. Presents the standards and requirements that pertain to finishes and materials; manufacture and composition of various interior materials and finishes; and proper methods of application and installation of selected materials.
Prerequisite: ID 24002 with a minimum C grade.
Corequisite: ID 34001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 34013 INTERIOR DESIGN BUSINESS AND PROFESSIONAL PRACTICE 3 Credit Hours
Undertakes a study of business and professional practices of interior designers. Topics to be covered include: opportunities within the design profession; types of business formations; legal and ethical responsibilities; business operations; and project management. Students develop a business plan; write resumes and cover letters; and develop a design services proposal.
Prerequisite: ID 24002 with a minimum C grade.
Corequisite: ID 34001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 34021 LIGHTING FOR INTERIOR SPACES LABORATORY 1 Credit Hour
Lighting for Interior Spaces Lab is a co-requisite to ID 34011 Lighting for Interior Spaces lecture. Structured for hands-on experience with calculating, specifying and testing different types of light and their application.
Prerequisite: ID 24002 with a minimum C grade.
Corequisite: ID 34011.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter
ID 34022  METHODS AND MATERIALS II-INTERIOR MATERIALS
LABORATORY    1 Credit Hour
Provides hands-on experience in the application of selected materials
for the design and construction of the sustainable interior environment.
Information presented in ID 34012 Methods and Materials II - Interior
Materials are applied to design scenarios.
Prerequisite: ID 24002 with a minimum C grade.
Corequisite: ID 34012.
Schedule Type: Laboratory
Contact Hours: 1 lab
Grade Mode: Standard Letter

ID 34023  PERSONAL BRANDING AND IMAGE MAKING    3 Credit
Hours
Designed to provide the student with an understanding of 1) branding as
a mechanism for personal and group identity; 2) the job market, versatility
of the profession, and industry expectations; 3) a developed knowledge
of portfolio layout, cover letter and resume writing; 4) increased sense of
who they are as a designer and their future; and 5) the ability to market
themselves and their work.
Prerequisite: ID 24002 with a minimum C grade.
Corequisite: ID 34011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 34503  STUDIO PROBLEMS IN INTERIOR DESIGN III    4 Credit
Hours
Special problems concerning design of small to moderate size
commercial interior space.
Prerequisite: ID 24502.
Schedule Type: Lecture, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ID 34504  STUDIO PROBLEMS IN INTERIOR DESIGN IV    4 Credit
Hours
Introduction to large scale planning.
Prerequisite: ARCH 10101 and ID 34503.
Pre/corequisite: PHY 13001.
Schedule Type: Lecture, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ID 34515  COMPUTER AIDED DESIGN FOR INTERIOR DESIGNERS    3
Credit Hours
Introduction to application of computer drawing and drafting techniques
used in interior design. Study of two dimensional and three dimensional
techniques as well as symbol libraries.
Prerequisite: Interior design major.
Corequisite: ID 34503.
Schedule Type: Laboratory
Contact Hours: 3 lecture
Grade Mode: Standard Letter
ID 40472  INTERIOR DESIGN STUDIO VII  5 Credit Hours
An advanced studio course focused on developing concepts and capacities for independent future practice. Topics will rotate based upon faculty expertise and student research interests as developed in ID 40311 Contemporary Issues and Research. Emphasis will be placed upon advanced theoretical and strategic development; advanced understandings of social, cultural, and spatial contexts; design as research; advanced representational strategies; and sophisticated design expression across all facets and scales of a project.
Prerequisite: ID 40461.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 40502  PROFESSIONAL PRACTICES II  3 Credit Hours
This advanced professional practice course proposes a critical approach to understand, evaluate and analyze interior design profession, projects and practice. The course focuses on the business, legal, financial, and managerial considerations of project and practice utilizing an intensive case study approach, and critical discussions on urgent topics facing practice.
Prerequisite: ID 30501.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 41093  VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN  1-4 Credit Hours
(Repeatable for credit) Workshops dealing with variable topics related to the interior design profession. Learning experiences provided in a broad spectrum of specialties.
Prerequisite: Interior design major.
Schedule Type: Workshop
Contact Hours: 1-4 other
Grade Mode: Satisfactory/Unsatisfactory

ID 41095  SPECIAL TOPICS IN INTERIOR DESIGN  1-4 Credit Hours
(Repeatable for credit) Discussion of a major topic or issue within the profession of interior design. Repeat registration permitted.
Prerequisite: Interior design major.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

ID 41096  INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN  1-3 Credit Hours
(Repeatable for credit) Independent study of interior design and related topics under the guidance of a faculty member.
Prerequisite: Interior design major.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

ID 44001  INTERIOR DESIGN STUDIO V-SPECIALIZED FOCUS AND POPULATIONS  5 Credit Hours
Structured to allow for a specialized focus on design problems that can occur based on current trends or issues that affect the built environment for varying populations. Environmental conditions and current and ongoing specific design issues in the interior environment are utilized as problems for the course.
Prerequisite: ID 34002 with a minimum C grade.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter

ID 44002  INTERIOR DESIGN STUDIO VI-COMMUNITY ENGAGEMENT  5 Credit Hours
Community engagement refers to the process by which organizations and individuals build ongoing, permanent relationships for the purpose of applying a collective vision for the benefit of a community. Structured to establish relationships and work with community organizations and leaders in formal and informal manners and partnering to create change and improve physical environments.
Prerequisite: ID 44001 with a minimum C grade.
Schedule Type: Studio
Contact Hours: 10 other
Grade Mode: Standard Letter
ID 44041  CURRENT ISSUES IN INTERIOR DESIGN  1 Credit Hour
Structured to inform the advanced design student about issues within
the design and social world and how design contributes to improving
human well-being and livelihood. Focuses the student on developing
an understanding that designers and creative professionals have a
responsibility and are able to cause real change in the world through
good design.
Prerequisite: ID 44001.
Corequisite: ID 44002.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

ID 44055  STUDIO PROBLEMS IN INTERIOR DESIGN V  2 Credit Hours
Introduction to principles of historic design focusing on hands-on and on-
site design techniques. For interior design majors only.
Prerequisite: ID 34504 and ID 44534.
Corequisite: ID 44535.
Schedule Type: Lecture
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ID 44056  STUDIO PROBLEMS IN INTERIOR DESIGN VI  4 Credit Hours
Special problems concerning the design of large-scale commercial
environments.
Prerequisite: CMGT 31015 and ID 44505.
Corequisite: ARCH 40501.
Schedule Type: Lecture, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ID 44057  STUDIO PROBLEMS IN INTERIOR DESIGN VII  4 Credit Hours
This course will provide the opportunity for a senior design thesis.
Problems will be selected by the students and will represent their own
area of interest.
Prerequisite: ID 44506 and ARCH 40501.
Schedule Type: Lecture, Studio
Contact Hours: 2 lecture, 2 other
Grade Mode: Standard Letter

ID 44512  HISTORIC FURNISHING TEXTILES  2 Credit Hours
(Placed with ID 54512) Designed to acclimate students to historic
textiles created primarily for use in interior architecture. Focus is on
aesthetics, design and construction. A comprehensive adaptive reuse or
restoration project is required.
Prerequisite: ID 44534 and ID 44535.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ID 44523  INTERIOR DESIGN PROFESSIONAL PRACTICE  2 Credit Hours
A study of the business and professional practices of interior designers.
Prerequisite: ID 34504.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

ID 44525  LIGHTING APPLICATION IN INTERIOR SPACES  3 Credit Hours
Design application of lighting technology for various interior spaces. Field
trips to study lighting installations.
Prerequisite: ID 34503.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ID 44527  STUDY TOURS  1-10 Credit Hours
A series of study tours for in-depth, first-hand experiences of historic
sites, markets, manufacturing facilities and attendance at product
seminars.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 1-10 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ID 44534  HISTORY OF INTERIORS TO 1600 (WIC)  4 Credit Hours
A chronological study of housing and furnishings from civilization to the
15th century.
Prerequisite: ID 34504; and ARTH 22006 and ARTH 22007; or
ARCH 10011 and ARCH 10012; and special approval.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

ID 44535  HISTORY OF INTERIORS-1600 TO PRESENT  4 Credit Hours
A chronological study of housing and furnishings from the Renaissance
to the Victorian Period-16th to 19th centuries and 20th century.
Prerequisite: ID 44534.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

ID 44592  PROFESSIONAL INTERIOR DESIGN INTERNSHIP (ELR)  1-4
Credit Hours
(Repeatable for credit) Provides practical professional interior design
experience by exposing the student to first-hand knowledge of the
professional work environment. Students are required to prepare a
portfolio and resume, and interview for the positions offered by the
professional design firms locally, nationally and internationally.
Prerequisite: ID 34001 with a minimum C grade.
Schedule Type: Practical Experience
Contact Hours: 12-48 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

ID 44611  INTERIOR DESIGN RESEARCH AND PROGRAMMING  2
Credit Hours
Structured to provide the student with an understanding of the research
systems of inquiry related to the interior design process; the ability to
demonstrate an understanding of the knowledge and tools related to
the gathering of data related to the successful completion of a design
project; and experience in researching, evaluating and programming of
private and public spaces.
Prerequisite: ID 34001 with a minimum C grade.
Corequisite: ID 44631.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 44612</td>
<td>INTERIOR SPECIFICATIONS AND COST ANALYSIS</td>
<td>3</td>
<td>Promotes an understanding of specifications and cost analysis of materials and furniture utilized in the design and construction of the sustainable interior environment. Informs students about format and content of the specifications that pertain to the interior contract documentation. Prerequisite: ID 34001 with a minimum C grade.</td>
</tr>
<tr>
<td>ID 44631</td>
<td>INQUIRY FOR EVIDENCE BASED DESIGN (WIC)</td>
<td>1</td>
<td>Structured to provide the student with the ability 1) to apply the research systems of inquiry related to the interior design process; 2) to demonstrate an understanding of the knowledge and tools related to the gathering of data related to the successful completion of a design project; 3) to experience the research, evaluation, and programming of private and public spaces. Prerequisite: ID 34001 with a minimum C grade.</td>
</tr>
<tr>
<td>ID 51093</td>
<td>VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN</td>
<td>1-4</td>
<td>(Repeatable for credit)Workshop topics dealing with variable topics related to the interior design profession. Learning experiences are provided in a wide range of areas. Prerequisite: Interior design major; and graduate standing.</td>
</tr>
<tr>
<td>ID 51095</td>
<td>SPECIAL TOPICS IN INTERIOR DESIGN</td>
<td>1-4</td>
<td>(Repeatable for credit) Discussion of a major topic or issue within the profession of interior design. Prerequisite: Interior design major; and graduate standing.</td>
</tr>
<tr>
<td>ID 51096</td>
<td>INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN</td>
<td>1-3</td>
<td>(Repeatable for credit)Independent study of interior design and related topics under the guidance of a faculty member. Prerequisite: Interior design major; and graduate standing.</td>
</tr>
<tr>
<td>ID 54512</td>
<td>HISTORIC FURNISHING TEXTILES</td>
<td>2</td>
<td>(Slashed with ID 44512) Designed to acclimate students to historic textiles created primarily for use in interior architecture. Focus is on aesthetics, design and construction. A comprehensive adaptive reuse or restoration project is required. Prerequisite: ID 44534 and ID 44535; and graduate standing.</td>
</tr>
<tr>
<td>ID 54534</td>
<td>HISTORY OF INTERIORS TO 1600</td>
<td>4</td>
<td>A chronological study of housing and furnishings from civilization to the 15th century. Prerequisite: Graduate standing and special approval and ID 34504; and ARTH 22006 and ARTH 22007; or ARCH 10011 and ARCH 10012.</td>
</tr>
<tr>
<td>ID 54535</td>
<td>HISTORY OF INTERIORS 1600 TO PRESENT</td>
<td>4</td>
<td>A chronological study of housing and furnishings from the Renaissance to the Victorian Period, sixteenth to nineteenth centuries and twentieth century. Prerequisite: ID 54534; and graduate standing.</td>
</tr>
</tbody>
</table>

**Landscape Architecture (LARC)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LARC 50100</td>
<td>DESIGN VISUALIZATION</td>
<td>3</td>
<td>Demonstration and application of computer software that aids the communication skill of a designer. Prerequisite: Landscape architecture major; and graduate standing.</td>
</tr>
<tr>
<td>LARC 50101</td>
<td>LANDSCAPE ARCHITECTURE STUDIO I</td>
<td>6</td>
<td>Garden Typologies: Beginning studio focused on garden typologies including exploration of small scale design elements and site, with private spaces emphasis. Prerequisite: Landscape architecture major; and graduate standing.</td>
</tr>
<tr>
<td>LARC 50102</td>
<td>LANDSCAPE ARCHITECTURE STUDIO II</td>
<td>6</td>
<td>Neighborhoods: Small scale community design that connects spaces to form neighborhoods and establishes linkages to larger communities. Prerequisite: LARC 50101; and landscape architecture major; and graduate standing.</td>
</tr>
<tr>
<td>LARC 50103</td>
<td>LANDSCAPE ARCHITECTURE STUDIO III</td>
<td>6</td>
<td>Systems and Infrastructure: Natural and hybrid ecological design studio with exploration of the role of systems and the integration into suburban and urban infrastructures with a focus on ecological function and services. Prerequisite: LARC 50102; and landscape architecture major; and graduate standing.</td>
</tr>
</tbody>
</table>
LARC 60104  LANDSCAPE ARCHITECTURE STUDIO IV  6 Credit Hours
Urban Form: Urban design studio at multiple scales to understand the diversity of a city with an emphasis on the relationships of architecture forms, systems, infrastructures, and landscape architecture functions.
Prerequisite: LARC 60103; and landscape architecture major; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60105  LANDSCAPE ARCHITECTURE STUDIO V  6 Credit Hours
Interdisciplinary or Capstone Studio: Option of a studio with graduate CUDC architecture and urban design students or development of an individual studio project with a selected faculty advisor.
Prerequisite: LARC 60104; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60106  LANDSCAPE ARCHITECTURE STUDIO VI  6 Credit Hours
Interdisciplinary or Capstone Studio 2: Option of a studio with graduate CUDC architecture and urban design students or develop individual studio project and select faculty adviser.
Prerequisite: LARC 60105; and graduate standing.
Schedule Type: Studio
Contact Hours: 12 other
Grade Mode: Standard Letter

LARC 60111  LANDSCAPE HISTORY AND THEORY  3 Credit Hours
Presentation of important landscape events, people and places to document and explain the factors that influenced the built and natural environments, with emphasis on cultural theories of design and their influence upon the built and natural environments.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60301  SITE ENGINEERING  3 Credit Hours
Examination and application of typical engineering strategies for small and large scale landscape projects with a concentration on sustainable practices.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60401  LANDSCAPE ARCHITECTURE CONSTRUCTION METHODS  3 Credit Hours
Discussion and application of small and large scale construction techniques that explore materials, construction assemblies, construction methods and construction documentation including investigations of lifecycles and maintenance of design decisions.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60601  PLANTS AND PLANTED FORM  3 Credit Hours
Plant identification with emphasis on individual plants and plant communities as relate to the built environment; integrated into the application of formal and informal design strategies for landscape planning that explores individual plants, plant communities and ecosystems. Further emphasis is placed on the relationships of architecture and interior design to landscape architecture.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60602  URBAN ECOLOGICAL SYSTEMS  3 Credit Hours
Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating and cultural ecosystem services required for human well-being.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60605  URBAN ECOLOGICAL SYSTEMS  3 Credit Hours
Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating and cultural ecosystem services required for human well-being.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 60798  MASTER PROJECT IN LANDSCAPE ARCHITECTURE RESEARCH  3 Credit Hours
Development of a rationale and structure for the independent design project to be completed in the final semester of the program.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 9 other
Grade Mode: Standard Letter

LARC 60799  MASTERS PROJECT IN LANDSCAPE ARCHITECTURE RESEARCH  6 Credit Hours
Independent Landscape Architecture design project, completed under the direction of an individual advisor selected from the graduate faculty.
Prerequisite: LARC 60105 and Graduate standing.
Schedule Type: Project or Capstone
Contact Hours: 6 other
Grade Mode: Standard Letter

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

LARC 60923  EMPIRICAL RESEARCH IN ENVIRONMENTAL DESIGN  1 Credit Hour
(Cross-listed with AED 60923) Introduces student to faculty-directed research in a field within the environmental design domain. Includes lectures by research faculty, readings from primary and review literature, and regular discussions among students, faculty and other research associates working under the direction of a principal investigator.
Prerequisite: Landscape architecture major; and graduate standing.
Corequisite: LARC 60922.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
LARC 65003 PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT 3 Credit Hours
Discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the profession as business.
Prerequisite: Landscape architecture major; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

LARC 66992 FIELD STUDY IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Repeatable for credit) Field study in landscape architecture.
Prerequisite: Graduate standing.
Schedule Type: Practical Experience
Contact Hours: 3-9 other
Grade Mode: Standard Letter

LARC 66995 SPECIAL TOPICS IN LANDSCAPE ARCHITECTURE 1-3 Credit Hours
(Repeatable for credit) Special topics in landscape architecture.
Schedule Type: Lecture
Contact Hours: 1-3 other
Grade Mode: Standard Letter

Urban Design (UD)

UD 55705 FORCES THAT SHAPE CITIES 1-3 Credit Hours
(Repeatable for maximum 3 credit hours) Course examines the forces that have shaped urban form through history, how they impact our cities today and the challenges they will pose for the future.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UD 60701 URBAN DESIGN STUDIO I 3-6 Credit Hours
Introduction to urban design and its relationship to other design disciplines through the analysis of neighborhoods and the definition of comprehensive area improvement programs.
Prerequisite: Graduate standing.
Schedule Type: Studio
Contact Hours: 6-10 other
Grade Mode: Standard Letter

UD 60702 URBAN DESIGN STUDIO II 3-6 Credit Hours
Urban design explorations of the formal relationships between buildings, open spaces and streets in the development of high density, mixed-use projects.
Prerequisite: UD 60701; and graduate standing.
Schedule Type: Studio
Contact Hours: 6-10 other
Grade Mode: Standard Letter

UD 60703 URBAN DESIGN STUDIO III 3-6 Credit Hours
Design of a comprehensive redevelopment strategy and implementation strategies for an urban area of diverse existing character.
Prerequisite: UD 55705 and 60702 and 65102; and graduate standing.
Schedule Type: Studio
Contact Hours: 3-6 other
Grade Mode: Standard Letter

UD 60705 MASTER PROJECT IN URBAN DESIGN PREPARATION 1-3 Credit Hours
(Repeatable for maximum three credit hours) Development of a rationale and structure for the independent design project to be completed in the final semester of the program.
Prerequisite: UD 60703; and graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

UD 60798 MASTERS PROJECT IN URBAN DESIGN 6-9 Credit Hours
Independent urban design project, completed under the direction of an individual advisor selected from the graduate faculty.
Prerequisite: UD 60703 and 60705; and graduate standing.
Schedule Type: Master's Project
Contact Hours: 10-15 other
Grade Mode: Standard Letter-IP

UD 65101 COMMUNITY DEVELOPMENT PROCESS 1-3 Credit Hours
Advanced course on comprehensive community development. Case study analysis, qualitative research and work with community initiatives are required.
Prerequisite: UD 55705 and 60703 and 65102; and graduate standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

UD 65102 URBAN SYSTEMS 1-3 Credit Hours
Introduction to urban systems in its socio-economic, environmental and engineering aspects: residential fabric, commercial sector, open space network, transportation systems, and infrastructures.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-3 other
Grade Mode: Standard Letter

UD 65632 URBAN ECOLOGICAL SYSTEMS 3 Credit Hours
Study of how ecological systems in highly anthropocentric environments provide necessary ecological services. Emphasized is the role that water plays in activating the supporting, provisioning, regulating, and cultural ecosystem services required for human well-being.
Prerequisite: UD 65102; and graduate standing.
Schedule Type: Seminar
Contact Hours: 3 lecture
Grade Mode: Standard Letter

UD 66995 SPECIAL TOPICS IN URBAN DESIGN 1-4 Credit Hours
(Repeatable for credit) Special topics in urban design.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1-4 other
Grade Mode: Standard Letter