

COLLEGE OF ARCHITECTURE AND ENVIRONMENTAL DESIGN

College of Architecture and Environmental Design

Center for Architecture and Environmental Design
Kent Campus
330-672-2917
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www.kent.edu/caed

Academic Advising Office

Center for Architecture and Environmental Design
Kent Campus
<http://www.kent.edu/caed/advising>

Mission

The College of Architecture and Environmental Design at Kent State University is dedicated to the education of responsible professionals who are committed to the improvement of the quality of life, enhancement of the physical environment and the protection of the public welfare. The college also promotes research in the various fields of environmental design, development of faculty scholarship, broadening of students' exposure to advanced theory and techniques and dissemination of knowledge. It contributes to the public welfare through its outreach programs to assist communities in their effort of 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.
- 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), Assistant Professor
- Bayramzadeh, Sara , Assistant Professor
- Bernal, Ivan A. (2018), Associate Professor, M.Arch., Southern California Institute of Architecture , 2011
- Cho, Ji Young (2010), Assistant Professor, Ph.D., University of Missouri-Columbia, 2011
- Coffman, Reid R. (2012), Associate Professor
- Daniel, Ronn , Associate Professor
- Davis-Sikora, Diane M. (1997), Associate Professor, M.Arch., Harvard University, 1995
- Ferut, Joseph F. (1989), Assistant Professor, M.Arch., University of Illinois-Chicago, 1987
- Frederick, Charles M. (1996), Assistant Professor, M.L.A., University of Virginia, 1998
- Hughes, David (1985), Professor, M.U.P., City University of New York, 1975
- Jaminet, Jean J. (2017), Assistant Professor, M.Arch., Princeton University, 2004
- Karpinski, Joseph (1990), Senior Lecturer, M.T., Kent State University, 2005
- Lahrmer, Jill (2008), Assistant Professor, B.A., Bowling Green University, 1999
- Liu, Rui (2013), Associate Professor, Ph.D., University of Colorado-Denver, 2010
- Lucak, Frederick W. (1986), Assistant Professor, B.Arch., Kent State University, 1990
- Marshall, Cathy S. (2017), Associate Professor, M.L.Arch., Harvard University, 2003
- Meshkani, Taraneh , Assistant Professor
- Mirando, Anthony M. (2013), Lecturer, Colorado State University, 2014
- Onsarigo, Lameck M. (2016), Assistant Professor, Ph.D., Indiana State, 2016
- Patel, Tina , Assistant Professor
- Peters, Brian (2013), Assistant Professor, M.Arch., University of Illinois-Chicago, 2005
- Poustinchi, Mohammad Ebrahim (2017), Assistant Professor, M.Arch., University of California-Los Angeles, 2014
- Rieke, Jonathan , Assistant Professor
- Robison, Elwin C. (1985), Professor, Ph.D., Cornell University, 1985
- Rugare, Steven N. (1993), Associate Professor
- Safley, Robert N. , Assistant Professor
- Sharag-Eldin, Adil M.K. (2002), Associate Professor, Ph.D., University of California-Berkeley, 1998
- 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

Architecture and Environmental Design (AED)

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 (ARCH), Architectural Studies (ARCS) or Interior Design (ID) 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 (ARCH), Interior Design (ID), or Architectural Studies (ARCS) 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 (ARCH), Architectural studies (ARCS) or Interior Design (ID) major.

Corequisite: AED 10001.

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 (ARCH), interior design (ID) or architectural studies (ARCS) 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: AED 60922 and 60923 with a minimum B- grade; and Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

AED 66099 THESIS PREPARATION SEMINAR 2 Credit Hours

Designed for students writing a thesis in the Master of Science in Architecture and Environmental Design Program. Supports students development of research topics, review relevant research and scholarship, frame research questions and arguments, choose an appropriate methodology for analysis, and draft introductory and methodology sections of the thesis proposal document.

Prerequisite: AED 60922 and 60923 and 60930; and ARCH 60301; and Graduate standing and special approval.

Schedule Type: Seminar

Contact Hours: 2 other

Grade Mode: Standard Letter

AED 66199 THESIS I 6 Credit Hours

Thesis students must register for a total of 6 hours.

Prerequisite: Graduate standing and special approval.

Schedule Type: Masters Thesis

Contact Hours: 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

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

(repeated registration permitted.) Variable topics.

Prerequisite: Permission.

Schedule Type: Workshop

Contact Hours: 1-3 other

Grade Mode: Satisfactory/Unsatisfactory

ARCH 10101 FIRST YEAR DESIGN STUDIO I 3 Credit Hours

Introduction to the fundamental principles of visual organization, structural organization, graphic communications, historical precedence and current directions in architecture. Graphic techniques include free hand drawing, and technical orthographics, axonometrics and perspectives.

Prerequisite: Architecture (ARCH) or Interior design (ID) majors.

Schedule Type: Studio

Contact Hours: 3 other

Grade Mode: Standard Letter

ARCH 10102 FIRST YEAR DESIGN STUDIO II 3 Credit Hours

Investigations into strategies of form making through the introduction of client, type, context, site and form/space theories 2D, and 3D representation techniques and analysis of related reference architects.

Prerequisite: ARCH 10101.

Schedule Type: Studio

Contact Hours: 3 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 20102 SECOND YEAR DESIGN STUDIO II 3 Credit Hours

The introduction of a building design process that emphasizes the integration of program requirements with form typologies that are both influenced and informed by specific site context. Line and plane and primary configurational shapes are again incorporated to develop building form solutions.

Prerequisite: ARCH 20101.

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 (ARCH) or Architectural Studies (ARCS) major or Architectural Studies (ARCS) minor.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ARCH 20113 HISTORY OF ARCHITECTURE III 3 Credit Hours

A history of 20th century architecture.

Prerequisite: ARCH 20112 and Architecture (ARCH) or Architectural Studies (ARCS) major or Architectural Studies (ARCS) 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 20112; and Architecture (ARCH) or Architectural Studies (ARCS) 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, loads including dead-live-wind-earthquake and building code requirements for structural safety.

Prerequisite: Architecture majors only and MATH 12011 and 12012, or MATH 12002; PHY 13001 or 13011.

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 (ARCH) or Architectural Studies (ARCS) or Interior Design (ID) 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 3D digital modeling and rendering, including: production of geometric surfaces and forms using polygon construction, texturing, lighting and rendering.

Prerequisite: ARCH 20601 and Architecture (ARCH) or Architectural Studies (ARCS) or Interior Design (ID) major.

Schedule Type: Studio

Contact Hours: 15-45 other

Grade Mode: Standard Letter

ARCH 20693 WORKSHOP: COMPUTER APPLICATIONS 1-3 Credit Hours

(Repeatable for credit) Computer workshops are intended to provide 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 and Interior Design majors only.

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 (ARCH) 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/seminar/research component conducted concurrently with ARCH 30102 addressing design of form and space in cities through study of precedents, traditions and current directions in urban form making.

Prerequisite: ARCH 30101 and ARCH 30001.

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/seminar/research component addressing 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 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 (ARCH) majors with 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

(Cross-listed 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

(Cross-listed 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
 (Cross-listed 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. 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
 (Cross-listed with ARCH 50102) Studio investigation of the comprehensive concerns and understanding of building systems integration. 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 (ARCH) major with 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
 (Cross-listed 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 30301.
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 (ARCH) majors with 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
 (Cross-listed 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, including glazing and interiors. Introduction to construction contract documents.
Prerequisite: ARCH 30401.
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. Interior design (ID) majors by special approval.
Prerequisite: PHY 13012 and Architecture (ARCH) major with approved admission to advanced study (third year).
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.5 other
Grade Mode: Standard Letter

ARCH 40502 ENVIRONMENTAL TECHNOLOGY II 3 Credit Hours
 (Cross-listed with ARCH 50502) Ecological design of large buildings. The investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.
Prerequisite: ARCH 30501.
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
 (Cross-listed with ARCH 55210) History and theory of renaissance architecture from 1400 until 1600.
Prerequisite: ARCH 10011 and 10012; or ARCH 10111 and 20112; or ARTH 22006 and 22007.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

ARCH 45211 BAROQUE ARCHITECTURE 3 Credit Hours
 (Cross-listed with ARCH 55211) History and theory of architecture in Europe from 1600 through 1750.
Prerequisite: ARCH 10011 and 10012; or ARCH 10111 and 20112; or ART 22006 and 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
 (Cross-listed with ARCH 55220) History of American architecture for Spanish, French, Dutch and English colonization through the 19th century.
Prerequisite: ARCH 10011 and 10012; or ARCH 10111 and 20112; or ARTH 22006 and 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

(Cross-listed with ARCH 55240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological, and technological considerations. Emphasis is placed on: early developments in Chicago and New York, the influence of the International Style, and current trends in ultra-high skyscrapers being built outside the US.

Prerequisite: Minimum C (2.000) grade in both 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

A seminar investigating 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 a total of 3 credit hours) (Cross-listed with ARCH 55291) Content varies.

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) (Cross-listed 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) (Cross-listed 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) (Cross-listed 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

(Cross-listed with ARCH 55601) This course discusses advanced visualization techniques such as raytracing, radiosity and animation, and presents a variety of presentation issues and options.

Prerequisite: Special approval; admission to third year.

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 a maximum of 3 credit hours) (Cross-listed with ARCH 55620) An overview of preservation including building analysis, conservation adaptive reuse economic benefits of preservation planning as a revitalizing strategy.

Prerequisite: Permission.

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 a maximum of 3 credit hours) (Cross-listed with ARCH 55621) course in which practicing professionals including architects, planners, developers and government officials present preservation related work.

Prerequisite: Permission.

Schedule Type: Lecture

Contact Hours: 1-3 lecture

Grade Mode: Standard Letter

ARCH 45625 EXPLORING HISTORIC STRUCTURES 3 Credit Hours

(Cross-listed with ARCH 55625) Provides students with the skills and opportunity to document an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Course work will cover 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. Architecture majors must have approved admission to the third year of study.

Prerequisite: Junior standing.

Schedule Type: Laboratory, Lecture

Contact Hours: 1.2 lecture, 3.6 lab

Grade Mode: Standard Letter

ARCH 45627 PRESERVATION TECHNOLOGY 3 Credit Hours

(Cross-listed with ARCH 55627) A study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for preservation.

Prerequisite: Junior or Senior standing in Architecture.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ARCH 45630 INTRODUCTION TO LANDSCAPE ARCHITECTURE 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) (Cross-listed 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 a maximum of 3 credit hours) (Cross-listed 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 a maximum of 3 credit hours) (Cross-listed with ARCH 55640) Research of existing built environments and an investigation of the planning design process for the elderly. Repeatable for a total of 3 credit hours.

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 a maximum of 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: Studio

Contact Hours: 3-6 other

Grade Mode: Standard Letter

ARCH 45703 THEORIES AND PRINCIPLES OF URBAN DESIGN 1-3 Credit Hours

(Repeatable for a maximum of 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 a maximum of 3 credit hours) course on the relationship between design ideologies/theories and the realities of existing spatial relationships/precedents.

Prerequisite: Special approval.

Schedule Type: Lecture

Contact Hours: 1-3 lecture

Grade Mode: Standard Letter

ARCH 45793 WORKSHOP:URBAN DESIGN AND PLANNING 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) This 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: None.

Schedule Type: Workshop

Contact Hours: 1-3 other

Grade Mode: Satisfactory/Unsatisfactory

ARCH 46991 SEMINAR: VARIABLE TOPIC 1-3 Credit Hours

(Repeatable for credit) Variable topic seminar.

Prerequisite: Approved admission to third year.

Schedule Type: Seminar

Contact Hours: 1-3 other

Grade Mode: Standard Letter

ARCH 46992 FIELD STUDY (ELR) 1-3 Credit Hours

(Repeatable for credit) (Cross-listed with ARCH 56992) Variable topic field experience.

Prerequisite: Approved admission to third year.

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) (Cross-listed with ARCH 56993) Variable topic workshop.

Prerequisite: Approved admission to third year.

Schedule Type: Workshop

Contact Hours: 1-3 other

Grade Mode: Satisfactory/Unsatisfactory

ARCH 46995 SPECIAL TOPICS IN ARCHITECTURE 1-3 Credit Hours

(Repeatable for credit) (Cross-listed with ARCH 56995) Special topics in architecture.

Prerequisite: Approved admission to 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) Individual investigation.

Prerequisite: Permission prior written agreement with faculty is required.

Schedule Type: Individual Investigation

Contact Hours: 1-3 other

Grade Mode: Standard Letter

ARCH 50001 SUSTAINABLE DESIGN 1 Credit Hour

(Cross-listed with ARCH 40001) Writing intensive 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 50002 SYSTEMS DESIGN 1 Credit Hour

(Cross-listed with ARCH 40002) Lecture and research component addressing comprehensive integration of mechanical, electrical, communication, structural- and life-safety systems and sustainable design concerns.

Prerequisite: Graduate standing.

Schedule Type: Lecture

Contact Hours: 1 lecture

Grade Mode: Standard Letter

ARCH 50093 VARIABLE TITLE WORKSHOP-ARCHITECTURE 1-6 Credit Hours

(Repeatable for credit)

Prerequisite: Graduate standing.

Schedule Type: Workshop

Contact Hours: 1-6 other

Grade Mode: Satisfactory/Unsatisfactory

ARCH 50101 FOURTH YEAR DESIGN STUDIO I 5 Credit Hours

(Cross-listed with ARCH 40101) Studio investigation of complex formal and spatial constructs addressing comprehensive concerns of architecture. Special emphasis on understanding conservation of the natural environment. CAD is required.

Prerequisite: ARCH 30102 or ARCH 30112; Graduate standing.

Corequisite: ARCH 50001.

Schedule Type: Studio

Contact Hours: 5 other

Grade Mode: Standard Letter

ARCH 50102 INTEGRATED DESIGN STUDIO 5 Credit Hours

(Cross-listed with ARCH 40102) Studio investigation of the comprehensive concerns and understanding of building systems integration. CAD is required. Corequisite ARCH 50002.

Prerequisite: Graduate standing.

Schedule Type: Studio

Contact Hours: 5 other

Grade Mode: Standard Letter

ARCH 50301 STRUCTURAL SYSTEMS I 3 Credit Hours

(Slashed with ARCH 40301) 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 Graduate standing.

Schedule Type: Combined Lecture and Lab

Contact Hours: 6 other

Grade Mode: Standard Letter

ARCH 50302 STRUCTURAL SYSTEMS II 3 Credit Hours

(Cross-listed with ARCH 40302) 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: Graduate standing.

Schedule Type: Combined Lecture and Lab

Contact Hours: 3 other

Grade Mode: Standard Letter

ARCH 50401 METHODS AND MATERIALS I 3 Credit Hours

(Slashed with ARCH 40401) 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: Graduate standing.

Schedule Type: Combined Lecture and Lab

Contact Hours: 6 other

Grade Mode: Standard Letter

ARCH 50402 METHODS AND MATERIALS II 3 Credit Hours

(Cross-listed with ARCH 40402) 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, including glazing and interiors.

Prerequisite: Graduate standing.

Schedule Type: Combined Lecture and Lab

Contact Hours: 3 other

Grade Mode: Standard Letter

ARCH 50501 ENVIRONMENTAL TECHNOLOGY I 3 Credit Hours

(Slashed with ARCH 40501) Basic principles of ecological design and architecture environmental systems including lighting, sonic and thermal systems. Interior design (ID) majors by special approval.

Prerequisite: PHY 13012 and Architecture (ARCH) major with approved admission to advanced study (third year).

Schedule Type: Combined Lecture and Lab

Contact Hours: 4.5 other

Grade Mode: Standard Letter

ARCH 50502 ENVIRONMENTAL TECHNOLOGY II 3 Credit Hours

(Cross-listed with ARCH 40502) Ecological design of large buildings. The investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.

Prerequisite: Graduate standing.

Schedule Type: Combined Lecture and Lab

Contact Hours: 3 other

Grade Mode: Standard Letter

ARCH 55101 FIFTH-YEAR DESIGN STUDIO I 6 Credit Hours

(Cross-listed with ARCH 45101) This studio intends to investigate a new scale of environmental issues which 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.

Prerequisite: Graduate standing.

Schedule Type: Studio

Contact Hours: 6 other

Grade Mode: Standard Letter

ARCH 55102 FIFTH-YEAR DESIGN STUDIO II 3-6 Credit Hours

(Repeatable for a total of 6 credit hours) (Cross-listed with ARCH 45102) Advanced design studio emphasizing comprehensive and independent investigation-exploring and manifesting ideas through architecture using competition and hypothetical or real projects as vehicles of expression.

Prerequisite: Graduate standing.

Schedule Type: Studio

Contact Hours: 3-6 other

Grade Mode: Standard Letter

ARCH 55210 RENAISSANCE ARCHITECTURE 3 Credit Hours
(Cross-listed with ARCH 45210) History and theory of Renaissance architecture from 1400 until 1600.

Prerequisite: Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ARCH 55211 BAROQUE ARCHITECTURE 3 Credit Hours
(Cross-listed with ARCH 45211) History and theory of architecture in Europe from 1600 through 1750.

Prerequisite: Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ARCH 55213 20TH CENTURY ARCHITECTURAL HISTORY 3 Credit Hours

(Slashed with ARCH 45213) History and theory of 20th Century Architecture.

Prerequisite: Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ARCH 55220 AMERICAN ARCHITECTURE: COLONIAL TO 1900 3 Credit Hours

(Cross-listed with ARCH 45220) History of American architecture from Spanish, French, Dutch and English colonization through the 19th century.

Prerequisite: Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ARCH 55230 FRANK LLOYD WRIGHT 3 Credit Hours

(Slashed with ARCH 45230) 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: Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ARCH 55240 THE SKYSCRAPER 3 Credit Hours

(Cross-listed with ARCH 45240) A study of skyscrapers from the standpoint of architectural, financial, structural, psychological, and technological considerations. Emphasis is placed on: early developments in Chicago and New York, the influence of the International Style, and current trends in ultra-high skyscrapers being built outside the US.

Prerequisite: Graduate standing; minimum C (2.000) grade in both ARCH 10111 and ARCH 20112.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ARCH 55241 ARCHITECTURE OF WORLD'S FAIRS 3 Credit Hours
(Slashed with ARCH 45241) A seminar investigating 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: Graduate standing.

Schedule Type: Seminar

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ARCH 55291 SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) (Cross-listed with ARCH 45291) Content varies.

Prerequisite: Special approval and Graduate standing.

Schedule Type: Seminar

Contact Hours: 1-3 other

Grade Mode: Standard Letter

ARCH 55391 SEMINAR: STRUCTURES III 1-3 Credit Hours

(Repeatable for credit) (Cross-listed 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.

Prerequisite: Graduate standing.

Schedule Type: Seminar

Contact Hours: 1-3 other

Grade Mode: Standard Letter

ARCH 55491 SEMINAR: METHODS AND MATERIALS III 1-3 Credit Hours

(Repeatable for credit) (Cross-listed with ARCH 45491) Advanced topics in methods and complex materials systems. Computer modeling and field experience is required.

Prerequisite: Graduate standing.

Schedule Type: Seminar

Contact Hours: 1-3 other

Grade Mode: Standard Letter

ARCH 55591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) (Cross-listed with ARCH 45591) Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques, etc.

Prerequisite: Graduate standing.

Schedule Type: Seminar

Contact Hours: 1-3 other

Grade Mode: Standard Letter

ARCH 55601 ADVANCED COMPUTER APPLICATIONS 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) (Cross-listed with ARCH 45601) This course discusses advanced visualization techniques such as raytracing, radiosity and animation and presents a variety of presentation issues and options.

Prerequisite: Graduate standing.

Schedule Type: Combined Lecture and Lab

Contact Hours: 1-3 other

Grade Mode: Standard Letter

ARCH 55620 INTRODUCTION TO PRESERVATION 1-3 Credit Hours
(Repeatable for a maximum of 3 credit hours) (Cross-listed with ARCH 45620) An overview of preservation including building analysis conservation, adaptive reuse, economic benefits of preservation planning as a revitalizing strategy. Graduate standing.

Prerequisite: Admission to the preservation program or permission of the instructor.

Schedule Type: Lecture

Contact Hours: 1-3 lecture

Grade Mode: Standard Letter

ARCH 55621 CURRENT ISSUES IN HISTORIC PRESERVATION 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) (Cross-listed with ARCH 45621) Course in which practicing professionals including architects, planners, developers and government officials present preservation related work.

Prerequisite: Special approval and Graduate standing.

Schedule Type: Lecture

Contact Hours: 1-3 lecture

Grade Mode: Standard Letter

ARCH 55625 EXPLORING HISTORIC STRUCTURES 3 Credit Hours

(Cross-listed with ARCH 45625) This course provides students with the skills and opportunity to lead teams documenting an historic structure using methods prescribed by the Historic American Buildings Survey (HABS). Lectures will cover 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: Graduate standing in the College of Architecture and Environmental Design.

Schedule Type: Laboratory, Lecture

Contact Hours: 1.2 lecture, 3.6 lab

Grade Mode: Standard Letter

ARCH 55627 PRESERVATION TECHNOLOGY 3 Credit Hours

(Cross-listed with ARCH 45627) A study of historic building materials with an emphasis on causes of degradation, strategies for conservation, and standards for restoration.

Prerequisite: Graduate standing; and minimum C (2.000) grade in both ARCH 30401 and ARCH 40402.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ARCH 55630 INTRODUCTION TO LANDSCAPE ARCHITECTURE 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) (Cross-listed with ARCH 45630) Introduction to landscape design with emphasis upon the relationship between landscape and buildings.

Prerequisite: Graduate standing.

Schedule Type: Lecture

Contact Hours: 1-3 lecture

Grade Mode: Standard Letter

ARCH 55631 SITE ANALYSIS AND DESIGN 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) (Cross-listed 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 a maximum of 3 credit hours) (Cross-listed 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 a maximum of 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 a maximum of 3 credit hours) This course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods with 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: Satisfactory/Unsatisfactory

ARCH 56991 SEMINAR: VARIABLE TOPIC 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) Variable topic seminar.

Prerequisite: Special approval and graduate standing.

Schedule Type: Seminar

Contact Hours: 1-3 other

Grade Mode: Standard Letter

ARCH 56992 FIELD STUDY 1-3 Credit Hours

(Repeatable for a maximum of 3 credit hours) (Cross-listed with ARCH 46992) Field experience.

Prerequisite: Special approval and Graduate standing.

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) (Cross-listed 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) (Cross-listed with ARCH 46995) Special topics in architecture.

Prerequisite: Special approval and Graduate standing.

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 60301 and Graduate standing.

Corequisite: ARCH 60922.

Schedule Type: Studio

Contact Hours: 3-6 other

Grade Mode: Standard Letter

ARCH 60103 GRADUATE DESIGN STUDIO III 6-9 Credit Hours

Capstone-studio (or "Master 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 60150 and 60922 and Graduate standing.

Schedule Type: Studio

Contact Hours: 6-9 other

Grade Mode: Standard Letter-IP

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 build 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: Graduate standing; ARCH 60101 and 60301.

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 a maximum of 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

Tools of representation: Introduction to the software used in the digital environment for modeling and representing architectural schemes.

Course will cover: Software interface, x,y,z coordinates and navigation, Nurbs modeling, and Mesh Modeling. The course will enable students to three-dimensionally design and represent massing studies, building details, and the development of 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

Tools of fabrication: The course covers advanced three-dimensional modeling tools and the different methods for outputting digital models into the physical environment. The course covers 3d 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

Tools of Simulation: The 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 will 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

Tools of coding: The course covers visual parametric software and coding languages to generate and develop architectural ideas. The course 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 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

The 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 (ARCH) 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 (ARCH) major and Graduate standing.

Schedule Type: Lecture

Contact Hours: 2-3 lecture

Grade Mode: Standard Letter

ARCH 66199 THESIS I 2-6 Credit Hours

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 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. Graduate standing.

Prerequisite: 6 credit hours of ARCH 66199.

Schedule Type: Masters Thesis

Contact Hours: 2 other

Grade Mode: Satisfactory/Unsatisfactory-IP

ARCH 66892 PRACTICUM 1-3 Credit Hours

(Repeatable for credit) Variable topic practicum.

Prerequisite: Permission.

Schedule Type: Practicum or Internship

Contact Hours: 1-3 other

Grade Mode: Standard Letter

ARCH 66991 SEMINAR: VARIABLE TOPIC 1-4 Credit Hours

(Repeatable for credit) Seminar on a variable topic.

Prerequisite: Graduate standing.

Schedule Type: Seminar

Contact Hours: 1-4 other

Grade Mode: Standard Letter

ARCH 66992 FIELD STUDY 1-3 Credit Hours

(Repeatable for credit) Field study in architecture.

Prerequisite: Graduate standing.

Schedule Type: Field Experience

Contact Hours: 1-3 other

Grade Mode: Standard Letter-IP

ARCH 66993 WORKSHOP: VARIABLE TOPIC 1-3 Credit Hours

(Repeatable for credit) Variable topic workshop.

Prerequisite: Graduate standing.

Schedule Type: Workshop

Contact Hours: 1-3 other

Grade Mode: Satisfactory/Unsatisfactory

ARCH 66995 SPECIAL TOPICS IN ARCHITECTURE 1-4 Credit Hours

(Repeatable for credit) Special topics in architecture.

Prerequisite: Graduate standing.

Schedule Type: Lecture

Contact Hours: 1-4 lecture

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 66998 RESEARCH 2-6 Credit Hours

(Repeatable for credit) Research in architecture.

Prerequisite: Graduate standing.

Schedule Type: Research

Contact Hours: 2-6 other

Grade Mode: Standard Letter

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: TECH 57000 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

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 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 (ARCS) 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 30123 MATERIALS AND PROCESS OF MAKING 3 Credit Hours

Seeks to introduce and foster an ease of mobility through various digital design environments utilizing familiar techniques of design production (i.e. drawing, modeling, rendering, etc.). Students engage in digital modes of production that will enable the testing of material, spatial, and tectonic performance through scalar prototyping. Prerequisite: AED 10102; or special approval for students who have completed equivalent design foundations studios in areas such as Fashion Design, Visual Communications Design or Studio Art

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; or special approval for students who have completed equivalent design foundations studios in areas such as Fashion Design, Visual Communications Design or Studio Art

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: AED 10102; or 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: AED 10102 or ARCH 10012 or Sustainability Minor.

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

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

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 25000 PRINCIPLES OF L.E.E.D. 1 Credit Hour

Review LEED as it applies to the construction industry with a focus on preparation for the LEED Green Associate exam.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 1 lecture

Grade Mode: Standard Letter

CMGT 31015 CONSTRUCTION TECHNOLOGY 3 Credit Hours

This course provide basic concepts and practices of the construction industry, including estimating, materials, tools, techniques and production of residential construction.

Prerequisite: None.

Schedule Type: Combined Lecture and Lab

Contact Hours: 1 lecture, 4 lab

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

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

This course will build on the Construction Safety course to enable the student to be able to properly manage the construction safety techniques and practices learned in the OSHA 30 hour course. Further, this course will provide the student with the opportunity 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

This course provides an in-depth study of various risks associated with construction projects and how those risks impact the construction industry. Topics of discussion include analytical and management techniques used to identify, analyze and respond to risks. Students will 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

This course will introduce the students to construction related insurance products and worker's compensation practices and policies. Further, students will understand 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 twice for credit) Create and combine Project Management, Safety, and Quality Control plans and prepare quantity takeoffs and schedule for a construction project, in the form of a construction proposal and presentation. Further analysis will be 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

Supervised work-study experience in approved construction related business relative to a student's construction management major or minor. The course can be taken for three (3) credit hours per semester for full time employment (450 or more total hours for the duration of the semester) or two (2) credit hour for part-time (300-450 total hours for the duration of the semester). 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. Construction Management students are required to take (3) credit hours at one time at least once.

Prerequisite: Construction Management (COMA) major or minor; Sophomore standing; and a cumulative 2.250 GPA.

Schedule Type: Practicum or Internship

Contact Hours: 10-30 other

Grade Mode: Standard Letter

Attributes: Experiential Learning Requirement, Writing Intensive Course

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

Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects.

Prerequisite: CMGT 22200.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

CMGT 41041 CONSTRUCTION ESTIMATING II 3 Credit Hours

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

This course is a part of the Safety Management Concentration in the Bachelor of Science in Construction Management and focuses on the environmental, community and occupational health issues within facilities and construction sites. It will provide 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

This course focuses on general legal doctrine and practical considerations of the Occupational Safety and Health Act (OSHA). Further, it 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 MANAGERS 3 Credit Hours

This course will further reinforce and investigate the usage of Building Information Modeling (BIM) as a Construction Management tool. BIM models will be created, with scheduling and cost loading, utilized to understand how BIM usage is maximized within the Built Environment. This course utilizes software applications to create the BIM model and integrate the construction schedule and estimate.

Prerequisite: TECH 13580.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

CMGT 42050 INTERNATIONAL CONSTRUCTION MANAGEMENT 3 Credit Hours

The 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 this 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

This course focuses on the construction application of alternative mechanical, electrical, and plumbing systems in the built environment. The course has an 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

The course focuses on estimating mechanical, electrical, plumbing, and fire protection systems for the built environment. The course 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 31040 and CMGT 31033.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

CMGT 42053 SUBCONTRACTOR LEADERSHIP AND PRACTICES 3 Credit Hours

This course focuses on the leadership, operations, and overall management of construction subcontractor companies. The course has an 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

This course will provide an in depth review and application of Civil Construction Estimating techniques and technology associated with Civil Estimating practices. This course will cover 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

This course discusses the installation, construction, renewal, estimating, and management of underground utility systems; while maintaining 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

This course will build on the student's previous knowledge of construction and enable the student to explore the nature of soils, 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

CMGT 42105 CONSTRUCTION CONTRACTS AND LAW 3 Credit Hours

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 the costs of construction work.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

CMGT 42107 CONSTRUCTION SCHEDULING 3 Credit Hours

The traditional theory of planning, scheduling and controlling construction projects. Current industry standard computer applications for scheduling is utilized.

Prerequisite: None.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

CMGT 42110 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: Senior standing.

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 51040 CONSTRUCTION ESTIMATING I 3 Credit Hours

Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. The ability to read and understand construction drawings is needed.

Prerequisite: Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

CMGT 51041 ADVANCED ESTIMATING 3 Credit Hours

Putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, budding ethics and using computer spreadsheets and software 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

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 the 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

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

This course will further reinforce and investigate the usage of Building Information Modeling (BIM) as a Construction Management tool. BIM models will be created, with scheduling and cost loading and utilized to understand how BIM usage is maximized within the Built Environment. This course will utilize software applications to create the BIM model and integrate the construction schedule and estimate. Research on the application of BIM in the industry will also be performed.

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 62070 ENGINEERING ECONOMICS AND STRATEGIC DECISION MAKING 3 Credit Hours

Application of engineering economic principles related to evaluating alternative solutions, replacement decisions and retention decisions. Includes decision and risk analysis, sensitivity analysis, expected value, benefit cost analysis, public sector economics, economic cycle, operation research, strategic management, and entrepreneurship in the technological environment.

Prerequisite: Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

CMGT 67295 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. 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 three options: internship, observation or research. Tracks allow for first-hand experience with a healthcare facility design project or environment; and to develop professional communication skills.

Prerequisite: Graduate standing.

Schedule Type: Practicum or Internship

Contact Hours: 1 other

Grade Mode: Standard Letter

HCD 60100 HEALTHCARE SYSTEMS WORKSHOP 3 Credit Hours

Course integrates the knowledgebase 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 60198 MASTER'S PROJECT IN HEALTHCARE DESIGN I 3 Credit Hours

Oriented to the individual student, focusing on research surrounding a specific aspect health care facility design. The student then defines the design issue and establishes the parameters around which their masters design project is executed. Prerequisite: Graduate standing; and special approval

Schedule Type: Master's Project, Research

Contact Hours: 3 other

Grade Mode: Standard Letter

HCD 60298 MASTER'S PROJECT IN HEALTHCARE DESIGN II 6 Credit Hours

Focused on an individual student's defined master's project topic and overseen by a faculty advisor and committee members. Concludes in the design of the specific issue detailed by the student in HCD 60198.

Prerequisite: HCD 60198; and graduate standing; and special approval.

Schedule Type: Master's Project

Contact Hours: 6 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 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: Minimum grade of C (2.000) in ID 14011.

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: TECH 11083.

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 (ID) major.

Schedule Type: Studio

Contact Hours: 3 other

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: Minimum grade of C (2.000) in ID 14012.

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: Minimum grade of C (2.000) in ID 24001.

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: Minimum grade of C (2.000) in ID 14012.

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: Minimum grade of C (2.000) in ID 24001.

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: Minimum grade of C (2.000) in ID 24001.

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: Minimum grade of C in AED 10102.

Corequisite: ID 24001.

Schedule Type: Laboratory

Contact Hours: 6 lab

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: Minimum grade of C (2.000) in ID 24001.

Corequisite: ID 24002.

Schedule Type: Laboratory

Contact Hours: 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 (ID) major; and special approval.

Pre/corequisite: ID 24001.

Schedule Type: Laboratory, Lecture

Contact Hours: 1 lecture, 5 lab

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: Interior design (ID) major and ID 14501.

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 (ID) 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 34001 INTERIOR DESIGN STUDIO III-LARGE SCALE PLANNING AND DOCUMENTATION 4 Credit Hours

Introduction to large-scale commercial space design through studio projects and lectures with an emphasis on space planning, office systems furniture planning, and development of workstation prototype development.

Prerequisite: Minimum grade of C (2.000) in ID 24002.

Schedule Type: Studio

Contact Hours: 8 other

Grade Mode: Standard Letter

ID 34002 INTERIOR DESIGN STUDIO IV-GLOBAL AND HISTORICAL CONTEXT 4 Credit Hours

Focus is on projects involving the historical design traditions of the United States and various global cultures. Historical approaches to interiors include: preservation; restoration; recreation of historic interiors; and the reuse of historic structures for new purposes. The use of metric dimensioning is a component of one project.

Prerequisite: Minimum grade of C (2.000) in ID 34001.

Corequisite: ID 44014.

Schedule Type: Studio

Contact Hours: 8 other

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: Sophomore standing and Interior Design (ID) major.

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: Minimum grade of C (2.000) in ID 24002.

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: Minimum grade of C (2.000) in ID 24002.

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: Minimum grade of C (2.000) in ID 24002.

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: Minimum grade of C (2.000) in ID 24002.

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: Minimum grade of C (2.000) in ID 24002.

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: Minimum grade of C (2.000) in ID 24002.

Corequisite: ID 34001.

Schedule Type: Lecture

Contact Hours: 3 lab

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 (ID) major.

Corequisite: ID 34503.

Schedule Type: Laboratory

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ID 34522 METHODS AND MATERIALS FOR INTERIOR DESIGN 3 Credit Hours

Information regarding the manufacture, construction and application of materials used in interior design. Proper methods and installation procedures of both surface materials and furnishings required in the profession are explored.

Prerequisite: Interior Design (ID) major.

Corequisite: ID 24502.

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 (ID) 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 (ID) 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 (ID) 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 on-going specific design issues in the interior environment are utilized as problems for the course.

Prerequisite: Minimum grade of C (2.000) in ID 34002.

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: Minimum grade of C (2.000) in ID 44001.

Schedule Type: Studio

Contact Hours: 10 other

Grade Mode: Standard Letter

ID 44011 INTEGRATED DESIGN PRACTICE AND PROJECT MANAGEMENT 2 Credit Hours

Introduction and application of current interior design and related disciplines project management needs, methods, and techniques in order to complete a design-build project. Content is project scheduling, documentation and supervision of all members of a design-build team including interior designers, architects, construction personnel and assorted trades involved in producing a built environment.

Prerequisite: Minimum grade of C (2.000) in ID 44612.

Corequisite: ID 44001.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

ID 44014 HISTORY OF INTERIORS II-16TH THROUGH 19TH CENTURY 3 Credit Hours

Provides a thorough background of the major design periods and traditions of global civilizations from the 16th through the 19th centuries including the design of furnishings, architecture, interiors, textiles, and the decorative and fine arts. The influence of culture, geography, technology, religion and politics on design are investigated.

Prerequisite: Minimum grade of C (2.000) in ID 24013.

Corequisite: ID 34002.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ID 44015 HISTORY OF INTERIORS III-20TH CENTURY TO THE PRESENT 3 Credit Hours

Provides a thorough background of the major design periods and traditions of global civilizations from the 20th century to the present including the design of furnishings, architecture, interiors, textiles, and the decorative and fine arts. The influence of culture, geography, technology, religion and politics on design are investigated.

Prerequisite: Minimum grade of C (2.000) in ID 44014.

Corequisite: ID 44001.

Schedule Type: Lecture

Contact Hours: 3 lecture

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 44505 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

Grade Mode: Standard Letter

ID 44506 STUDIO PROBLEMS IN INTERIOR DESIGN VI 4 Credit Hours

Special problems concerning the design of large-scale commercial environments.

Prerequisite: TECH 31015 and ID 44505.

Corequisite: ARCH 30501.

Schedule Type: Lecture, Studio

Contact Hours: 2 lecture, 2 other

Grade Mode: Standard Letter

ID 44507 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 30501.

Schedule Type: Lecture, Studio

Contact Hours: 2 lecture, 2 other

Grade Mode: Standard Letter

ID 44512 HISTORIC FURNISHING TEXTILES 2 Credit Hours

(Slashed 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

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 a maximum of 4 credit hours) 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: Minimum grade of C in ID 34002.

Schedule Type: Practicum or Internship

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: Minimum grade of C (2.000) in ID 34001.

Corequisite: ID 44631.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

ID 44612 INTERIOR SPECIFICATIONS AND COST ANALYSIS 3 Credit Hours

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: Minimum grade of C (2.000) in ID 34001.

Corequisite: ID 34002.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

ID 44631 INQUIRY FOR EVIDENCE BASED DESIGN (WIC) 1 Credit Hour

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: Minimum grade of C (2.000) in ID 34001.

Corequisite: ID 44611.

Schedule Type: Lecture

Contact Hours: 1 lecture

Grade Mode: Standard Letter

Attributes: Writing Intensive Course

ID 51093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN 1-4 Credit Hours

(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 (ID) major and Graduate standing.

Schedule Type: Workshop

Contact Hours: 1-4 other

Grade Mode: Satisfactory/Unsatisfactory

ID 51095 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.

Prerequisite: Interior design (ID) major and Graduate standing.

Schedule Type: Lecture

Contact Hours: 1-4 lecture

Grade Mode: Standard Letter

ID 51096 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 (ID) major and graduate standing.

Schedule Type: Individual Investigation

Contact Hours: 1-3 other

Grade Mode: Standard Letter-IP

ID 54512 HISTORIC FURNISHING TEXTILES 2 Credit Hours

(Slashed with 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.

Schedule Type: Lecture

Contact Hours: 2 lecture

Grade Mode: Standard Letter

ID 54534 HISTORY OF INTERIORS TO 1600 4 Credit Hours

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 20001 and ARCH 20002.

Schedule Type: Lecture

Contact Hours: 4 lecture

Grade Mode: Standard Letter

ID 54535 HISTORY OF INTERIORS 1600 TO PRESENT 4 Credit Hours

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.

Schedule Type: Lecture

Contact Hours: 4 lecture

Grade Mode: Standard Letter

Landscape Architecture (LARC)

LARC 50100 DESIGN VISUALIZATION 3 Credit Hours

Demonstration and application of computer software that aids the communication skill of a designer.

Prerequisite: Landscape Architecture (LARC) major and Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

LARC 50101 LANDSCAPE ARCHITECTURE STUDIO I 6 Credit Hours

Garden Typologies: Beginning studio focused on garden typologies including exploration of small scale design elements and site, with private spaces emphasis.

Prerequisite: landscape architecture (LARC) major and graduate standing.

Schedule Type: Studio

Contact Hours: 12 other

Grade Mode: Standard Letter

LARC 50102 LANDSCAPE ARCHITECTURE STUDIO II 6 Credit Hours

Neighborhoods: Small scale community design that connects spaces to form neighborhoods and establishes linkages to larger communities.

Prerequisite: LARC 50101; Landscape Architecture (LARC) major; and Graduate standing.

Schedule Type: Studio

Contact Hours: 12 other

Grade Mode: Standard Letter

LARC 60103 LANDSCAPE ARCHITECTURE STUDIO III 6 Credit Hours

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; Landscape Architecture (LARC) major; and Graduate standing.

Schedule Type: Studio

Contact Hours: 12 other

Grade Mode: Standard Letter

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; Landscape Architecture (LARC) 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 advisor.

Prerequisite: LARC 60105 and Graduate standing.

Schedule Type: Studio

Contact Hours: 12 other

Grade Mode: Standard Letter-IP

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 (LARC) 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 (LARC) 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 (LARC) 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 (LARC) 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 (LARC) major and Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter

LARC 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES 2 Credit Hours

(Cross-listed with AED 60922 + ARCH 60922) Provides comprehensive coverage of design inquiry techniques including qualitative and quantitative research methods and critical thinking skills to help students better conduct and understand research.

Prerequisite: Landscape Architecture (LARC) 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 (LARC) 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 (LARC) major and Graduate standing.

Schedule Type: Lecture

Contact Hours: 3 lecture

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 street sin 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