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 10101 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 10102 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 configural 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 20111 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: Lecture
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: Lecture
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
Study 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
Attributes: Experiential Learning Requirement

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: special approval.
Corequisite: ARCH 30112.
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 30112.
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
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ARCH 45230  FRANK LLOYD WRIGHT  3 Credit Hours
(Replaced 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
(Repeatable for a total of 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
Attributes: Experiential Learning Requirement

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

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.
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 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 other
Grade Mode: Standard Letter-IP
ARCH 60198  MASTER'S PROJECT IN HEALTH CARE DESIGN I  6 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
Contact Hours: 6 other
Grade Mode: Standard Letter-IP
ARCH 60298  MASTER'S PROJECT IN HEALTH CARE DESIGN II  6 Credit Hours
Focused on an individual student's defined master project topic and overseen by a faculty advisor and committee members. Concludes in the design of the specific issue detailed by the student in Health Care Design I. This is the culminating course for the Master's Degree in Health Care Design.
Prerequisite: ARCH 60198; and graduate standing; and special approval.
Schedule Type: Master's Project
Contact Hours: 6 other
Grade Mode: Standard Letter-IP
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-IP
ARCH 60451  DEVELOPING ENVIRONMENTS FOR PATIENTS ACROSS THE LIFESPAN  3 Credit Hours
Explores the functional, operational, and personpsychosocial requirements for different patient populations. It follows a life-course perspective, beginning with birthing and infant care, moving through adolescence and adult care, exploring a number of medical specializations such as oncology and orthopedics, then explores environments for older adults and end-of-life care.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
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-IP
ARCH 63001  HEALTH CARE FACILITIES I  3 Credit Hours
An investigation of the history and types of health care facilities, and basic planning and programming requirements for their planning and design.
Prerequisite: graduate standing and special approval.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
ARCH 63003  HEALTH CARE FACILITIES II  3 Credit Hours
An investigation of architectural finishes, furnishings, mechanical systems, regulatory systems, and design team dynamics in health care design.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP
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 other
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-S/U
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-S/U-IP
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-S/U-IP