

ARCHITECTURE (ARCH)

ARCH 6000. REVIT. 3 Credit Hours.

Visualizing a form enhances a designer's ability to communicate ideas. Course will demonstrate how REVIT can facilitate the Conception of a design from various points of genesis.

ARCH 6007. Art & Architecture in Greece. 3 Credit Hours.

An intensive on-site investigation of the role that the arts and architecture have played in the development of classical Greek civilization.

ARCH 6008. Art & Architecture in Italy I. 3 Credit Hours.

Investigations of the painting, sculpture, and architecture of the Classical, Early Christian, Byzantine, and Medieval periods in Italy with special emphasis on Rome.

ARCH 6009. Art & Architecture in Italy II. 3 Credit Hours.

Investigations of the painting, sculpture, and architecture of the Renaissance and Baroque periods in Italy with special emphasis on the works of Rome.

ARCH 6010. Media + Modeling 1. 3 Credit Hours.

Introductory approaches to two and three dimensional modeling and representation in architecture using both manual and digital media and techniques.

ARCH 6015. Structures 1. 3 Credit Hours.

This course provides students with a basic knowledge of analysis and design of building structures and the ordering of structural systems to resist gravity and lateral loads.

ARCH 6020. Media + Modeling 2. 3 Credit Hours.

Intermediate approaches to two dimensional modeling and representation in architecture using both manual and digital media techniques.

ARCH 6024. Architecture Core I Studio. 5 Credit Hours.

Foundation studies in architectural design emphasizing analytical and analogical generative strategies applied to studio problems that engage architectural representation, composition, and fabrication. Credit not allowed for both ARCH 6024 and ARCH 4021.

ARCH 6026. Architecture Core II Studio. 5 Credit Hours.

Intermediate studies in architectural design emphasizing integrative design strategies that engage the programmatic, contextual, and constructed dimensions of architecture and its representations. Credit not allowed for both ARCH 6026 and ARCH 4022.

ARCH 6027. Architecture Core III Studio. 5 Credit Hours.

Intermediate studies in architectural design emphasizing integrative design strategies that engage the programmatic, contextual, and constructed dimensions of architecture and its representations. Credit not allowed for both ARCH 6027 and ARCH 4023.

ARCH 6028. Core 1 Studio. 5 Credit Hours.

Foundation studies in architectural design emphasizing analytical and analogical generative strategies applied to studio problems that engage architectural representation, composition, and fabrication.

ARCH 6029. Core 2 Studio. 5 Credit Hours.

Intermediate studies in architectural design emphasizing integrative design strategies that engage the programmatic, contextual, and constructed dimensions of architecture and its representations.

ARCH 6030. Core 3 Studio. 5 Credit Hours.

Intermediate studies in architectural design emphasizing integrative design strategies that engage the programmatic, contextual, and constructed dimensions of architecture and its representations.

ARCH 6039. Advanced Architectural Studio 1. 6 Credit Hours.

Architectural design studio exploring advanced issues in architecture from the perspectives of professional practice, sustainability, technology and urban design.

ARCH 6040. Advanced Architectural Studio 2. 6 Credit Hours.

Architectural design studio exploring advanced issues in architecture from the perspectives of professional practice, sustainability, technology and urban design.

ARCH 6047. Advanced Architecture Studio 1. 5 Credit Hours.

Architectural design studio exploring advanced issues in architecture from the perspectives of professional practice, sustainability, technology and urban design.

ARCH 6048. Advanced Studio 2. 5 Credit Hours.

Architectural design studio exploring advanced issues in architecture from the perspectives of professional practice, sustainability, technology and urban design.

ARCH 6049. Design + Research Studio 1. 6 Credit Hours.

Advanced architectural design emphasizing innovation through applied research. Emerging methods of design generation/evaluation. Changing topics: healthcare, fabrication, urbanism, ecology, building performance, cultural institutions.

ARCH 6050. Design + Research Studio 2. 6 Credit Hours.

Advanced architectural design emphasizing innovation through applied research. Emerging methods of design generation/evaluation. Changing topics: healthcare, fabrication, urbanism, ecology, building performance, cultural institutions.

ARCH 6069. Advanced Architectural Design I. 6 Credit Hours.

Architectural design studio exploring advanced issues in architecture from the perspectives of professional practice, sustainability, technology and urban design.

ARCH 6070. Advanced Architectural Design II. 6 Credit Hours.

Architectural design studio exploring advanced issues in architecture from the perspectives of professional practice, sustainability, technology and urban design.

ARCH 6071. Architecture Design and Research Studio I. 6 Credit Hours.

Advanced architectural design emphasizing innovation through applied research. Emerging methods of design generation/evaluation. Changing topics: healthcare, fabrication, urbanism, ecology, building performance, cultural institutions.

ARCH 6072. Architecture Design and Research Studio 2. 6 Credit Hours.

Advanced architectural design emphasizing innovation through applied research. Emerging methods of design generation/evaluation. Changing topics: healthcare, fabrication, urbanism, ecology, building performance, cultural institutions.

ARCH 6100. Retrofitting Suburbia. 3 Credit Hours.

Study of suburban redevelopment trends, projects, and policies that improve environmental, social, and economic sustainability, with an emphasis on urban design strategies.

ARCH 6105. Architectural History I - Antiquity through the 18th Century. 3 Credit Hours.

Architectural history from antiquity through the 18th century emphasizing buildings in their cultural context as informed by social, technological, and constructive factors and theoretical positions. Credit not allowed for both ARCH 6105 and ARCH 4105 or ARCH 2111.

ARCH 6106. Architectural History II - 19th and 20th Century. 3 Credit Hours.

Architectural history during the 19th and 20th centuries emphasizing buildings in their cultural context as informed by social, technological, and constructive factors and theoretical positions. Credit not allowed for both ARCH 6106 and ARCH 4106 or ARCH 2112.

ARCH 6107. Intro to Historic Preser. 3 Credit Hours.

This course provides an overview of the history, philosophy, organization, current legislation, policies, and practice of historic preservation.

ARCH 6109. Architecture and Minimalism. 3 Credit Hours.

This course examines the influence of "minimalism," the 1960s art phenomenon, upon architecture culture and production from 1968-present.

ARCH 6110. Public Space: Questions and Configurations. 3 Credit Hours.

This course addresses questions concerning present-day configurations of public spaces as a platform for analysis of the contemporary city.

ARCH 6112. Islamic Architecture and Urbanism. 3 Credit Hours.

Two-part survey of Asian architecture and urbanism (excluding East Asia). The Islamic world up to the 18th century: the Mughal, Raj, and post-independence periods in Indian subcontinent.

ARCH 6113. History of Renaissance and Mannerist Architecture. 3 Credit Hours.

Investigation of the history and theory of Renaissance and Mannerist architecture with a primary emphasis on Italy.

ARCH 6114. Architecture and Discourse of the Everyday. 3 Credit Hours.

Application of the concept of the everyday to architectural practice from perspectives of European social theory, American cultural landscape studies, and contemporary architectural theory.

ARCH 6115. Introduction to Principles of Classical Design. 3 Credit Hours.

An introduction to the principles of Classical and traditional architectural design through readings, discussions, and site visits with Classical architects.

ARCH 6117. Architecture of the Arts and Crafts Movement. 3 Credit Hours.

Study of the theory, design, and construction of the "artistic" house as embodied in the English and American Arts and Crafts Movement and in related developments elsewhere.

ARCH 6119. Frank Lloyd Wright and His Influence. 3 Credit Hours.

Study of the life, work, and influence of Frank Lloyd Wright, including work of his apprentices and followers.

ARCH 6120. History of Atlanta Architecture. 3 Credit Hours.

Study of the architecture of the Atlanta metro area.

ARCH 6127. Introduction to Art and Architecture in Italy. 1 Credit Hour.

Required preparation for the COA Summer Program in Italy. Includes the fundamentals of art and architecture; basic Italian language skills; library research for required summer program projects.

ARCH 6129. Form and Narrative: Cross Media Analysis. 3 Credit Hours.

This theory course will involve an extended comparison between architecture and related art forms, especially painting, film, and writing.

ARCH 6135. Architectural Representation. 3 Credit Hours.

Systems of architectural representation and codes of thinking, drawing, and reading architecture.

ARCH 6136. Architecture and Ideology. 3 Credit Hours.

Architecture and politics in Italy, Germany, and the Soviet Union between the wars.

ARCH 6137. Postwar Architecture and Urbanism in the U.S.: Design, Politics & History. 3 Credit Hours.

Introduction to the economic, social, political, cultural, and technological forces that shape architecture and cities in the United States after World War II.

ARCH 6142. Dwelling: Histories and Theories of Environmental Behavior and Design. 3 Credit Hours.

Explores scholarship and case studies from multiple disciplines relating to issues of place, community identity and memory, culturally constructed meaning, and appropriate use of resources.

ARCH 6143. Museums: History, Theory, Design. 3 Credit Hours.

Investigates museums as manifestations of the construction and content of knowledge, the public mission of cultural and scientific institutions and the framing of visitors experience.

ARCH 6151. Theories of Urban Design. 3 Credit Hours.

Contemporary theories of urban design and their relationship to the contemporary city examined through architects' writings, urban projects, and interdisciplinary criticism.

ARCH 6152. Studies in Landscape Architecture. 3 Credit Hours.

History and theory of the designed landscape and garden from the ancient world to the present.

ARCH 6153. History and Theory of the Modern City. 3 Credit Hours.

An examination of the evolution of the modern city in the nineteenth and twentieth centuries with particular reference to architectural, city planning, and urban design theories.

ARCH 6154. Introduction to Urban Design. 3 Credit Hours.

Introduction of urban design ideas, research, and practice, examining traditional qualities of the American city and their possible applications in the contemporary city.

ARCH 6155. Contemporary Architecture and Urbanism in Europe. 3 Credit Hours.

A course on contemporary architecture and urban projects in Europe, including the architect's writings, published criticism, and analyses of the buildings and projects.

ARCH 6160. Race, Space, and Architecture in the United States. 3 Credit Hours.

This course examines the relationship between architecture - as social practice and as a labor market - and race in the United States.

ARCH 6171. Formulation of Design Intention in Architecture. 3 Credit Hours.

Reviews theories of interpretive criticism in architecture, and develops methodological approaches to interpreting criticizing, and formulating conceptual intent in architectural design.

ARCH 6200. Portfolio Design. 3 Credit Hours.

Explores strategies of descriptions, representation, and presentation and other art-related ideas in order to communicate design work and design speculation effectively.

ARCH 6206. Studies in Architectural Building Assemblies. 3 Credit Hours.

Structural and cladding systems integration, environmental control, and tectonic representation explored through historical and contemporary case studies and applied design solutions.

ARCH 6209. Building Enclosure: A Tectonic Element. 3 Credit Hours.

Investigations of enclosure design from three perspectives (technology, form, and culture), analyzing relationships of the four Semperian elements and Alberti's three parts of the enclosure.

ARCH 6210. Architectonics. 3 Credit Hours.

The study of architecture of form from both an historical and a mathematical perspective. The formal theory is applied mathematics, group theory, combinatorics, as well as recent studies in the history of mathematics.

ARCH 6215. Contemporary Architecture and Construction Technology. 3 Credit Hours.

General exposure to questions pertaining to the production of building systems and assemblies through a series of case study projects by contemporary practicing architects.

ARCH 6216. Eco-Tectonics: Making and Meaning. 3 Credit Hours.

Strategies of ecologically sustainable design and construction and the role of the architect in the stewardship of the environment.

ARCH 6218. The Material Logic of Architecture. 3 Credit Hours.

Introduction to scientific and practical nature of architectural materials: soils, cements, metals, plastics, and glazing materials. Laboratory includes fabrication of, and experiments on, architectural materials.

ARCH 6225. Reinvestigating the Detail: The Ornamental and the Everyday. 3 Credit Hours.

Explores the role of the detail in contemporary architectural practice.

ARCH 6226. Green Construction. 3 Credit Hours.

This course focuses on the means, methods, strategies, and technologies to improve the energy efficiency and performance of buildings, and to reduce the environmental impact of buildings.

ARCH 6227. Architecture and Ecology. 3 Credit Hours.

Introduction to ecological design theory, research, and practice in architecture, including writings, criticism, and analyses of buildings and projects.

ARCH 6228. Analytical Investigations in Urban Design. 3 Credit Hours.

Measures of urban and spatial form. Analysis of street connectivity. Models of space use and spatial cognition. Comparison and evaluation of design alternatives.

ARCH 6229. Construction Technology and Design Integration I. 3 Credit Hours.

Introduction to building anatomy, technical and expressive characteristics of materials and their organizational assembly. Credit not allowed for both ARCH 6229 and ARCH 4219.

ARCH 6241. Building Simulation in Design Practice. 3 Credit Hours.

Learn to use mainstream simulation packages to support building design in domains of Energy, CFD, Lighting, Ventilation.

ARCH 6242. Building Physics Modeling. 3 Credit Hours.

Survey of basic thermo-fluid energy and mass flows in buildings, the interrelations between these flows, physical system modeling, and implications for building performance goals.

ARCH 6243. Evidence-Based Design. 3 Credit Hours.

Fundamental concepts, research methods and case studies of evidence-based design.

ARCH 6251. Building Structures I. 3 Credit Hours.

Introduction to design and analysis of building structures and ordering of structural systems to resist gravity and lateral loads. Emphasis on wood structures.

ARCH 6252. Building Structures II. 3 Credit Hours.

Introduction to structural design and framing systems for steel and concrete with consideration of lateral loads and lateral load resisting systems.

ARCH 6268. Advanced Architecture, Culture and Behavior: Theories, Models and Methods. 3 Credit Hours.

Theories, models, methods and case studies linking architectural design to culture and behavior.

ARCH 6271. Healthcare Design of the Future. 3 Credit Hours.

Introduction to research-based approaches to integrated healthcare design innovation.

ARCH 6303. Urban Design: Policy and Implementation. 3 Credit Hours.

Introduction to urban design policy and practice across a range of scales including planning, architecture, landscape architecture, civil engineering, public policy and administration. Credit not allowed for both ARCH 6303 and CP 6834.

ARCH 6305. Near and Far: Cross-Cultural Practices in Art, Architecture, and Design. 3 Credit Hours.

This course will address the material culture of globalization and cultural diffusion, emphasizing the multicultural registers of work produced between and across geographical, cultural, and disciplinary boundaries.

ARCH 6312. Ecological Practice: History, Polemics, and Poetics. 3 Credit Hours.

An historically and culturally grounded examination of the ecological perspective. Critical and productive engagement with green guidelines, laws, products, design briefs, and procedures.

ARCH 6313. Traditions of Architectural Practice. 3 Credit Hours.

Critical examination of architectural practice. Cultural derivation and technological transformation of various conventions of representation, construction, and design; speculations about future paradigms of architectural practice.

ARCH 6315. Practice of Architecture I. 3 Credit Hours.

Architectural practice from historical, sociological, and ethical perspectives with focus on professional leadership, practice management, and entrepreneurship.

ARCH 6316. Practice of Architecture 2. 3 Credit Hours.

Methods of architectural project delivery and project management. Fundamentals of building economics. Emergent models of research-driven architectural practice.

ARCH 6350. Theory of Architecture I. 3 Credit Hours.

Architectural program. Building types from functional and morphological perspectives. Design responses to building programs in the context of culture and politics. Architectural responses to site.

ARCH 6352. Theory of Architecture 2. 3 Credit Hours.

Approaches to architectural form, style, and tectonics from aesthetic, social, and technological perspectives. Instrumental and symbolic uses of architectural media in design and building production.

ARCH 6404. Electronic Media: From Technique to Culture. 3 Credit Hours.

The influence of electronic media upon representation and invention in architecture.

ARCH 6410. Collage Making. 3 Credit Hours.

Concepts of Collage within art, architecture, and culture, manual and electronic approaches to two and three-dimensional collage-making.

ARCH 6412. Dwelling: Histories and Theories of Environmental Behavior and Design. 3 Credit Hours.

Explores scholarship and case studies from multiple disciplines relating to issues of place, community identity and memory, culturally constructed meaning, and appropriate use of resources.

ARCH 6417. Building Furniture/Furnishing Buildings. 3 Credit Hours.

A course that focuses on schematic design and design development of furniture. The emphasis of this course is on conceptual and material/structural clarity.

ARCH 6420. Design Computing. 3 Credit Hours.

Survey of computer representations and modeling techniques, including pixel-based images, vector-based drawing systems, and surface and solid modeling; use of applications built upon these systems. Credit not allowed for both ARCH 6420 and ARCH 4420.

ARCH 6426. 3D Modeling in Architecture. 3 Credit Hours.

Construction of 3D computer models of architectural structures. Topics include: geometry creation, light and materials property, rendering, data exchange, and basic animation.

ARCH 6427. Advanced Modeling and Animation in Architecture. 3 Credit Hours.

Advanced computer modeling of architectural form. Topics include: parametric design, parametric materials, special effects, object libraries, animation, and video production.

ARCH 6428. Formal Systems in Design, Art, and Architecture. 3 Credit Hours.

This course will examine generative descriptions of languages of design, art, and architecture and explore various computational approaches to design with a special emphasis on shape grammars.

ARCH 6447. Urban Ecological Design. 3 Credit Hours.

This course engages the contemporary issues of urban ecology and its articulation to design. It explores relationship between urban forms and flows of ecology, energy, material, water and information. Credit not allowed for both ARCH 6447 and CP 6836.

ARCH 6470. Architecture Modeling & Media I. 3 Credit Hours.

Introductory approaches to two and three dimensional modeling and representation in architecture using both manual and digital media and techniques.

ARCH 6472. Architecture Modeling & Media 2. 3 Credit Hours.

Intermediate approaches to two dimensional modeling and representation in architecture using both manual and digital media and techniques.

ARCH 6474. Architecture Modeling & Media 3. 3 Credit Hours.

Advanced approaches to two and three dimensional modeling and representation in architecture using both manual and digital media and techniques.

ARCH 6501. Analog and Digital Design Computation. 3 Credit Hours.

Analog and digital approaches in design computation. Visual and symbolic representations. Algorithmic and computational tools. History and logic.

ARCH 6502. Scripting for Architecture and Design. 3 Credit Hours.

Learning the concepts and application of scripting languages in architecture and form generation.

ARCH 6503. Building Information Modeling - Concepts and Applications. 3 Credit Hours.

Survey of Building Information Modeling - its technologies exploration of new technologies to be applied and new procedures of project execution.

ARCH 6504. Digital Design and Fabrication Workshop. 6 Credit Hours.

Parametric design, planning and programming. Develop design for fabrication in specific materials including wood, plastic, metals, concrete, or composite.

ARCH 6505. Geometric Constructs in Digital Space. 3 Credit Hours.

Geometric surface and solid construction fundamentals using parametric modeling tools; use of sketching workbenches.

ARCH 6506. Construction Materials, Systems, and Fabrications. 3 Credit Hours.

Physical and constructional properties of building materials. Fabrication techniques for building components. Digital representations of materials, components, and fabrication processes.

ARCH 6507. Parametric Modeling and Design. 3 Credit Hours.

Design using parametric modeling tools; use of sketching workbenches and development of custom parametric models.

ARCH 6508. Shape Grammars. 3 Credit Hours.

Shape grammars are a powerful formal system for the generative description, interpretation and evaluation of designs.

ARCH 6509. Computation, Creativity and Design Cognition. 3 Credit Hours.

This course investigates computational methods, models tools that support design creativity and cognition. Credit not allowed for both ARCH 6509 and ID 6509.

ARCH 6510. Advanced Productions. 3 Credit Hours.

Advanced integration of digital design and production technologies through Mixed Reality (MR) geared towards collaborative immersive spatial design and production systems.

ARCH 6511. Robotic Fabrication. 3 Credit Hours.

Introduction to robotics in design and construction. Kinematics and programming of 6-axis industrial robots. Use of robotics in building fabrication and assembly operations.

ARCH 6512. Research Colloquium. 3 Credit Hours.

Introduces students to the processes of developing a topic of inquiry and delivering projects in architectural design, and to prepare students for the development of a final MS research project to be delivered as a final deliverable of the MS program during the subsequent semester.

ARCH 6513. Building Systems & Data. 3 Credit Hours.

A focus on the overlap between AEC (Architecture, Engineering, Construction) processes and the building models and data that support them.

ARCH 6531. Environmental Systems I. 3 Credit Hours.

Basics of heat, light, and sound applied to buildings. Thermal loading, passive thermal control, thermal comfort, climate, passive solar strategies, light and daylighting, acoustics.

ARCH 6731. Zero Energy House. 3 Credit Hours.

Design, analysis, operation, construction, and cost feasibility of so-called "zero energy" houses. Credit not allowed for both ARCH 6731 and BC 6731.

ARCH 6XXX. Architecture Elective. 1-21 Credit Hours.**ARCH 7000. Master's Thesis. 1-21 Credit Hours.****ARCH 7012. Urban Design Studio I. 6 Credit Hours.**

Urban design laboratory problems focus on analysis, design, and implementation strategies for contemporary urban problems.

ARCH 7013. Urban Design Studio 1. 6 Credit Hours.

Urban design studio problems focusing on analysis, design, and implementation strategies for contemporary urban problems.

ARCH 7014. Urban Design Studio 2. 6 Credit Hours.

Advanced urban design problems emphasizing the application of contemporary urban design research and multidisciplinary collaboration into the design process.

ARCH 7015. Urban Design Studio 3. 6 Credit Hours.

Advanced urban design problems emphasizing the application of contemporary urban design research and multidisciplinary collaboration into the design process.

ARCH 7030. Media + Modeling 3. 3 Credit Hours.

Advanced approaches to two and three dimensional modeling and representation in architecture using both manual and digital media and techniques.

ARCH 7042. Urban Design Workshop. 3 Credit Hours.

Advanced problems in urban design and development focusing on the Atlanta region. Integration of urban design theory and methods, economic development, political registration, and communication.

ARCH 7043. Urban Design Workshop. 4 Credit Hours.

Advanced problems in urban design and development focusing on the Atlanta region. Integration of urban design theory and methods, economic development, political registration, and communication.

ARCH 7044. Urban Design Workshop. 5 Credit Hours.

Advanced problems in urban design and development focusing on the Atlanta region. Integration of urban design theory and methods, economic development, political registration, and communication.

ARCH 7045. Urban Design Workshop. 6 Credit Hours.

Advanced problems in urban design and development focusing on the Atlanta region. Integration of urban design theory and methods, economic development, political registration, and communication.

ARCH 7050. Architecture Professional Practice Immersion. 3 Credit Hours.

Immersion for first year Graduate students experiences of the Professional Practice of Architecture.

ARCH 7060. Critical Positions in Architectural Design. 3 Credit Hours.

Advanced topics in the theory of architectural production focusing upon contemporary ethical dilemmas and the development of critical positions of design.

ARCH 7101. Integrated Building Systems 1. 3 Credit Hours.

Examines approaches to building design and systems integration. Introduces resiliency as a means of integrating environmental assessment for energy efficiency and design for natural forces.

ARCH 7102. Integrated Building Systems II. 3 Credit Hours.

Approaches building design and systems integration through the making of construction drawings and specifications of metal frame buildings, including structural steel calculations.

ARCH 7103. Integrated Building Systems III. 3 Credit Hours.

Approaches building design and systems integration via the design and detailing of a concrete frame building, including engineering of the concrete frame and the mechanical systems.

ARCH 7104. Integrated Building Systems 2. 4 Credit Hours.

Approaches building design and systems integration through the making of construction drawings and specifications of metal frame buildings, including structural steel calculations.

ARCH 7105. Integrated Building Systems 3. 4 Credit Hours.

Approaches building design and systems integration via the design and detailing of a concrete frame building, including engineering of the concrete frame and the mechanical systems.

ARCH 7116. Constructing the Visual. 3 Credit Hours.

Promote an understanding of visual representations as they pertain to art, architecture and the use of architecture representations in the structuring of persuasive statements/arguments.

ARCH 7151. History of Urban Form. 3 Credit Hours.

History of the city as a collective work of architecture with an emphasis on the city's physical form and space.

ARCH 7155. Flourishing Communities. 3 Credit Hours.

Introduces students to collaborative and participatory processes especially in relation to design, equity, diversity, and inclusion for underserved communities.

ARCH 7252. Computational Building Simulation. 3 Credit Hours.

Students learn how to develop their own extensible Building Simulation software using Finite Element discretization in Matlab and apply it to research problem.

ARCH 7350. Foundations of Architectural Theory. 3 Credit Hours.

Reviews thought and attitudes guiding architecture since the modern movement, their philosophical sources, and their relationship with architectural production. Defines architectural theory.

ARCH 7360. Design & Climate Change. 3 Credit Hours.

This course positions design as an essential component of research that explores the sociocultural and eco-political dimensions of climate change as it applies to the built environment.

ARCH 7471. Cognitive Function of Visual Design in Architecture. 3 Credit Hours.

Presents fundamentals of imaginative and cognitive functioning of visual design in buildings, and develops inter-disciplinary approaches to investigating visual form of buildings.

ARCH 7625. Theories of Inquiry. 3 Credit Hours.

Introduction to research paradigms and their assumptions. The formulation of questions and frameworks of description, representation, analysis, interpretation, and data control.

ARCH 8100. Introduction to Architectural Research 1. 3 Credit Hours.

Fundamental issues and methods across specializations in architectural research modules on causation and simulation.

ARCH 8101. Introduction to Architectural Research 2. 3 Credit Hours.

Fundamental issues and methods across specializations in architectural research; modules on representation and interpretation.

ARCH 8102. Introduction to Architectural Research 3. 3 Credit Hours.

Fundamental issues and methods across specializations in architectural research; modules on historiography and epistemology and on theories of design.

ARCH 8630. Architecture Space & Culture. 3 Credit Hours.

Accounts of the social functions of architectural space and associated design choices, across a variety of building types and scales of environmental design.

ARCH 8685. Building Simulation Seminar. 3 Credit Hours.

Numerical simulation of performance characteristics of whole buildings. Review of the finite element method for uniform treatment of transport phenomena in different building technology domains.

ARCH 8799. Qualifying Paper. 1-21 Credit Hours.

Preparation for Qualifying Paper in Doctorial Program in Architecture.

- ARCH 8801. Special Topics. 1 Credit Hour.
- ARCH 8802. Special Topics. 2 Credit Hours.
- ARCH 8803. Special Topics. 3 Credit Hours.
- ARCH 8804. Special Topics. 4 Credit Hours.
- ARCH 8805. Special Topics. 5 Credit Hours.
- ARCH 8806. Special Topics. 6 Credit Hours.
- ARCH 8811. Special Topics: Architectural Design. 1 Credit Hour.
- ARCH 8812. Special Topics: Architectural Design. 2 Credit Hours.
- ARCH 8813. Special Topics: Architectural Design. 3 Credit Hours.
- ARCH 8814. Special Topics: Architectural Design. 4 Credit Hours.
- ARCH 8815. Special Topics: Architectural Design. 5 Credit Hours.
- ARCH 8821. Special Topics: History, Theory, and Criticism. 3 Credit Hours.
- ARCH 8822. Special Topics: History, Theory, and Criticism. 3 Credit Hours.
- ARCH 8823. Special Topics: History, Theory, and Criticism. 3 Credit Hours.
- ARCH 8831. Special Topics: Architectural Technology. 3 Credit Hours.
- ARCH 8832. Special Topics: Architectural Technology. 3 Credit Hours.
- ARCH 8833. Special Topics: Architectural Technology. 3 Credit Hours.
- ARCH 8841. Special Topics: Professional and Social Practice. 3 Credit Hours.
- ARCH 8842. Special Topics: Professional and Social Practice. 3 Credit Hours.
- ARCH 8843. Special Topics: Professional and Social Practice. 3 Credit Hours.
- ARCH 8851. Special Topics: Visual Arts and Design Computing. 1 Credit Hour.
- ARCH 8852. Special Topics: Visual Arts and Design Computing. 2 Credit Hours.
- ARCH 8853. Special Topics: Visual Arts and Design Computing. 3 Credit Hours.
- ARCH 8855. Special Topics. 5 Credit Hours.
Special topics in design.
- ARCH 8856. Special Topics. 6 Credit Hours.
Special topics in advanced design.
- ARCH 8863. Special Topics. 3 Credit Hours.
Topics of current interest in architecture.
- ARCH 8866. Special Topics. 6 Credit Hours.
Special topics in Design & Research studio.
- ARCH 8873. Special Topics. 3 Credit Hours.
- ARCH 8901. Special Problems. 1-21 Credit Hours.
- ARCH 8902. Special Problems. 1-21 Credit Hours.
- ARCH 8903. Special Problems. 1-21 Credit Hours.
- ARCH 8911. Special Problems: Architectural Design. 1-21 Credit Hours.
- ARCH 8912. Special Problems: Architectural Design. 1-21 Credit Hours.
- ARCH 8913. Special Problems: Architectural Design. 1-21 Credit Hours.
- ARCH 8914. Special Problems: Architectural Design. 1-21 Credit Hours.
- ARCH 8915. Special Problems: Architectural Design. 1-21 Credit Hours.
- ARCH 8921. Special Problems: History, Theory, and Criticism. 1-21 Credit Hours.
- ARCH 8922. Special Problems: History, Theory, and Criticism. 1-21 Credit Hours.
- ARCH 8923. Special Problems: History, Theory, and Criticism. 1-21 Credit Hours.
- ARCH 8924. Special Problems: History, Theory, and Criticism. 1-21 Credit Hours.
- ARCH 8925. Special Problems: History, Theory, and Criticism. 1-21 Credit Hours.
- ARCH 8931. Special Problems: Architectural Technology. 1-21 Credit Hours.
- ARCH 8932. Special Problems: Architectural Technology. 1-21 Credit Hours.
- ARCH 8933. Special Problems: Architectural Technology. 1-21 Credit Hours.
- ARCH 8941. Special Problems: Professional and Social Practice. 1-21 Credit Hours.
- ARCH 8942. Special Problems: Professional and Social Practice. 1-21 Credit Hours.
- ARCH 8943. Special Problems: Professional and Social Practice. 1-21 Credit Hours.
- ARCH 8951. Special Problems: Visual Arts and Design Computing. 1-21 Credit Hours.
- ARCH 8952. Special Problems: Visual Arts and Design Computing. 1-21 Credit Hours.
- ARCH 8953. Special Problems: Visual Arts and Design Computing. 1-21 Credit Hours.
- ARCH 8996. Prep Doctoral Dissertation. 1-21 Credit Hours.
Preparation for Qualifying Paper in Doctorial Program in Architecture.
- ARCH 8997. Teaching Assistantship. 1-9 Credit Hours.
For graduate students holding graduate teaching assistantships.
- ARCH 8998. Research Assistantship. 1-9 Credit Hours.
For graduate students holding graduate research assistantships.
- ARCH 8999. Preparation for Doctoral Dissertation. 1-21 Credit Hours.
- ARCH 9000. Doctoral Thesis. 1-21 Credit Hours.