Architectural Studies

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Faculty
Associate Professor B. Balakrishnan**
Assistant Professor S. Bae, L. Cole**, J.B. Kim*
Associate Teaching Professor M. Goldschmidt*
Assistant Teaching Professor L. Bartlett, R. Walsh*
Professor Emeritus R. Helmick*, B. Schwarz**, R. B. Toffle**
Associate Professor Emeritus G. Hennigh, R. G. Phillips
Assistant Professor Emerita P. Hildebrand

* Graduate Faculty Member - membership is required to teach graduate-level courses, chair master's thesis committees, and serve on doctoral examination and dissertation committees.
** Doctoral Faculty Member - membership is required to chair doctoral examination or dissertation committees. Graduate faculty membership is a prerequisite for Doctoral faculty membership.

Undergraduate
- BS in Architectural Studies (http://catalog.missouri.edu/collegeofartsandscience/architecturalstudies-bs-architectural-studies/)
- with emphasis in Architectural Studies (http://catalog.missouri.edu/collegeofartsandscience/architecturalstudies-bs-architectural-studies-emphasis-architectural-studies/)
- with emphasis in Interior Design (http://catalog.missouri.edu/collegeofartsandscience/architecturalstudies-bs-architectural-studies-emphasis-interior-design/)
- Minor in Architectural Studies (http://catalog.missouri.edu/collegeofartsandscience/architecturalstudies/minor-architectural-studies/)

The Program
Our mission is to develop the next generation of leaders in the design professions, advance research to enhance the design of built environment and provide service to improve quality of life for people. Our work prepares graduates to become designers of the built environment.

Through teaching, research, and service, faculty and students conduct systematic inquiry into 1) the design process, 2) sustainable products and practices, 3) the interaction between people and the built environment, and 4) the implications of digital technologies for the above. The program highlights the interdisciplinary interaction between interior design, architecture, the human sciences and aesthetics to improve quality of life for the public good.

For professional development and career information see Careers in Interior Design (http://arch.missouri.edu/resources_pd.html) and Careers in Architectural Studies (http://arch.missouri.edu/resources_arch.html).

Coursework
Coursework includes design studios, lecture classes, and online learning opportunities centering on the synthesis of functional, technological, aesthetic and symbolic attributes of interior design and architecture emphasizing physical environments that support human needs and aspirations.

Minors & Certificates
Students who are non-majors may receive a Minor in Architectural Studies with 15 credits.

In partnership with the College of Engineering, Architectural Studies students may receive a minor in Sustainability with required courses in Architectural Studies, and an additional 6 credits of specified Engineering coursework. Minor in Sustainability (https://engineering.missouri.edu/academics/engineering-minors/sustainability-minor/)

In partnership with the College of Engineering, Architectural Studies students may receive a minor in Construction Management with required courses in Architectural Studies, and an additional 6 credits of specified Engineering coursework. Minor in Construction Management (https://engineering.missouri.edu/academics/engineering-minors/construction-management-minor/)

In partnership with the College of Agriculture, Food & Natural Resources, Architectural Studies students may receive a certificate in Sustainability with required courses in Architectural Studies, and an additional 3 credits of specified coursework. Certificate in Sustainability (https://snr.missouri.edu/undergrad-studies/sustainability-certificate/)
Admission to Professional Program
Studio Sequence

Student application for admission to the professional program studio sequence is required for undergraduate majors. Portfolio review and applications are submitted in May of each year. In order to submit a portfolio for review, students must complete ARCHST 1100 and ARCHST 1200. More information about portfolio review and the application process can be found at the department website (http://arch.missouri.edu/academics_ugadmit.html).

Laptop Computer Requirements

A laptop computer is required when admitted to the professional program studio sequence. See department website (http://arch.missouri.edu/resources_computing.html) for recommended specifications.

Graduate

- MA in Architectural Studies (http://catalog.missouri.edu/collegeofartsandscience/architecturalstudies/ma-architectural-studies/)
  - with emphasis in Design with Digital Media (http://catalog.missouri.edu/collegeofartsandscience/architecturalstudies/ma-architectural-studies-emphasis-design-digital-media/)
  - with emphasis in Environment and Behavior (http://catalog.missouri.edu/collegeofartsandscience/architecturalstudies/ma-architectural-studies-emphasis-environment-behavior/)
- MS in Architectural Studies (http://catalog.missouri.edu/collegeofartsandscience/architecturalstudies/ms-architectural-studies/)
  - with emphasis in Design with Digital Media (http://catalog.missouri.edu/collegeofartsandscience/architecturalstudies/ms-architectural-studies-emphasis-design-digital-media/)
  - with emphasis in Environment and Behavior (http://catalog.missouri.edu/collegeofartsandscience/architecturalstudies/ms-architectural-studies-emphasis-environment-behavior/)

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The Program

For both the MA and MS, the student’s program of study must include a minimum of 30 hours of graduate credit beyond the bachelor’s degree (or its equivalent). Fifteen of the 30-hour minimum must be selected from courses numbered at 8000 or 9000 level; no more than 40% of the 30-hour credit requirement can be satisfied by Research, Readings and Problems coursework.

The MA is a non-thesis option culminating in a creative project. The MS culminates in a thesis meeting University thesis requirements (https://gradschool.missouri.edu/current-students/thesis-dissertation/thesis-process/).

In consultation with one’s graduate advisor, each student is required to enroll in selected “core” courses appropriate to her/his degree program. The academic program should be established in consultation with one’s advisor.

Professional Opportunities

Career opportunities for master’s and doctoral graduates of the Department and College include leadership positions in design and consulting practices in industry, government and education; and academic and administrative positions in higher education and research. The MA degree leads to career opportunities in design firms, computer graphics and design visualization, retail establishments, corporate institutions and consultancy. Graduates contribute their skill to design of commercial, institutional, corporate and health care facilities, as well as residential settings. They collaborate with related design professionals providing solutions to social and environmental problems.

Graduates of the MS and PhD degree programs pursue academic and professional careers integrating design theory with their research skills.

See Career Information for Graduate Students (http://arch.missouri.edu/resources_careers.html) and Spotlight on Alumni (http://arch.missouri.edu/alumni.html).

Online Study

On-campus and distance-learners are taught by the same accomplished professors. This is a fully integrated model of online instruction with established quality. The Department of Architectural Studies offers 100% online graduate education:

- Master of Arts (https://arch.missouri.edu/graduate/ma-ms-programs/#page_MA) in the emphasis areas of Environment and Behavior (https://arch.missouri.edu/graduate/environment-and-behavior-studies/) and Design with Digital Media (https://arch.missouri.edu/graduate/design-with-digital-media/).
- Master of Science (http://arch.missouri.edu/academics_masters.html#page_MS) in the emphasis areas of Environment and Behavior (https://arch.missouri.edu/graduate/environment-and-behavior-studies/) and Design with Digital Media (https://arch.missouri.edu/graduate/design-with-digital-media/).
- Doctor of Philosophy (http://arch.missouri.edu/academics_phd.html) in Human Environmental Sciences and in the concentration* areas of Environment and Behavior (https://arch.missouri.edu/graduate/environment-and-behavior-studies/) and Design with Digital Media (https://arch.missouri.edu/graduate/design-with-digital-media/).
- Design Research Concentration (http://arch.missouri.edu/academics_DesignResearch.html)* as stand-alone coursework or as part of a masters or doctorate.
- Stand-alone courses for non-degree (http://gradschool.missouri.edu/admissions/eligibility-process/non-degree-applicants/) graduate students. Students select online courses from an extensive menu for professional advancement. Up to 12 credit hours of graduate credit taken as a non-degree graduate student may be applied to a graduate degree program upon approval of the academic program if the student is accepted.
  - concentrations will not appear on diplomas or transcripts
Graduate courses are delivered as:

- Asynchronous or Synchronous. Asynchronous coursework is completed independently according to the provided schedule. Synchronous courses will include real-time discussion during arranged weekly class periods via video conferencing technology.
- Semester-based or self-paced online.

See Missouri Online (https://online-consent.missouri.edu/search/) for online offerings open for registration.

Architectural Studies Graduate Degrees

Graduate students select one of two areas of emphasis: 1) Environment and Behavior studies with a creative project leading to an MA degree and with research leading to the MS and PhD degrees OR 2) Design with Digital Media studies leading to the MA, MS and PhD degrees. The graduate program builds on Architectural Studies course work and a core of courses in design theory, research methods, graduate seminars, research and readings in digital media and environment and behavior.

Design Research Concentration

The Design Research Concentration (https://arch.missouri.edu/graduate/design-research-concentration/) is developed for

- Designers engaged in architecture, interior design, graphic design, or interaction design who require applied research skills from companies/organizations.
- Researchers with a background in social sciences, anthropology etc. who conduct research for creative product development in industry - Healthcare IT companies, Product Design firms, corporate research labs etc.
- Business and market professionals to advance understanding of design research for marketing.

Graduate Program Requirements

The academic program should be developed in consultation with an advisor. See the Graduate School (https://gradschool.missouri.edu/) website for guidelines and requirements regarding course work and role of committee. Students are required to self-report academic performance, degree program milestones and related achievements in scholarship, research and creative work on an annual basis. Students complete an annual review. See department Graduate Handbook (https://arch.missouri.edu/wp-content/uploads/2021/03/handbook.pdf) for details.

Financial Aid from the Program

Limited teaching and/or research assistantships and scholarships are available to graduate students. GTA appointments are available to resident graduate students and are based on the match between the department’s needs and candidate’s background. See Financial FAQs (http://arch.missouri.edu/academics_faqgrad.html) on department web site.

ARCHST 1005: Topics in Architectural Studies - Humanities
Organized study of selected topics in architectural studies. Particular topic and earnable credit may vary by semester. May be repeated for credit up to 6 credit hours.

Credit Hour: 1-99
Prerequisites: instructor's consent

ARCHST 1100: Visual Design
Design study as an introduction to basic design and visual composition with application to creating two- and three-dimensional abstract and/or functional design work. Studio exercises expressed through drawings and abstract models, using various media.

Credit Hours: 3

ARCHST 1200: Architectural Drafting and Working Drawings
Beginning drafting including equipment and materials; lettering; floor plans, sections, elevations; orthographic and axonometric drawings; working drawings; and details.

Credit Hours: 3

ARCHST 1600: Fundamentals of Environmental Design
Survey of the architectural environment emphasizing design fundamentals such as use, aesthetics, stability of structures and human relationships with places and time.

Credit Hours: 3
Prerequisites: ENGLSH 1000

ARCHST 1600W: Fundamentals of Environmental Design - Writing Intensive
Survey of the architectural environment emphasizing design fundamentals such as use, aesthetics, stability of structures and human relationships with places and time.

Credit Hours: 3
Prerequisites: ENGLSH 1000

ARCHST 2005: Topics in Architectural Studies - Humanities
Organized study of selected topics in architectural studies. Particular topic and earnable credit may vary by semester. May be repeated for credit up to 6 credit hours.

Credit Hour: 1-99
Prerequisites: instructor's consent

ARCHST 2085: Problems in Architectural Studies
Supervised independent work.

Credit Hours: 3
Prerequisites: instructor's consent

ARCHST 2100: Understanding Architecture and the American City
Multifaceted introduction to the architectural and social roots of urban form in the U. S.: historic precedents from around the world; growth, decline and revival of cities; rise of suburbia; tradition and transformation in campus communities; continuing housing challenges; sustainable design and the future of urbanism. Explores a diverse range of opportunities to improve communities available to professionals and general public.

Credit Hours: 3

ARCHST 2210: Understanding Visualization for Animated Films
Provides a critical overview of design and visualization techniques in animated film-making. Emphasizes the role of the built environment and spatial design features.
ARCHST 2220: Introduction to CAD
Introduction to computer-aided drafting and design with AutoCad software. Emphasis will be placed on development of skills and problem solving related to the professions of environmental and interior design.
Credit Hours: 3
Recommended: ARCHST 1200

ARCHST 2230: Design Communication I
A course introducing techniques and conventions of digitally-mediated graphic communication as aids in the design process.
Credit Hours: 3
Prerequisites: ARCHST 2220 and ARCHST 2811

ARCHST 2310: Building Systems
Integrated building systems: structure, construction, technology, comfort; including voice-data communication, safety, floor, wall, ceiling, mechanical, electrical, and plumbing systems; and project estimating.
Credit Hours: 3

ARCHST 2315: Introduction to Building Systems Laboratory
Building system renovations, materials, processes, finishes, and applications testing: furniture design, fabrication, finishing, lighting, concrete and masonry, wood and steel light framing construction, and mock-up fabrication and testing. All equipment training and safety is covered in this introductory course.
Credit Hour: 1

ARCHST 2316: Advanced Building Systems Lab
Advanced exposure to building system renovations, materials, processes, finishes, and applications testing: furniture design, fabrication, finishing, lighting, concrete and masonry, wood and steel light framing construction, and mock-up fabrication and testing. Graded on A-F basis only.
Credit Hours: 2
Prerequisites: ARCHST 2315

ARCHST 2323: Sustainable Building Design Fundamentals
Environmental concerns addressed by green building design practices for consumers and owners of homes and businesses. Overview of how green buildings improve prospects for ecology, economy, social equity, and human health. Hands-on lab experiments reference national performance standards for decision making in sustainable building projects. Emphasis on energy and water use, sustainable sites, environmentally friendly building products, indoor air quality, and design for sustainable behaviors. Graded on A-F basis only.
Credit Hours: 3

ARCHST 2620: People, Places and Design
Understanding human behavior and interaction with environments; the influence of architectural design on built places. Practical application for design.
Credit Hours: 3
Recommended: ARCHST 1600

ARCHST 4001: Topics in Architectural Studies
Selected current topics in field of interest.
Credit Hour: 1-99

ARCHST 4085: Problems in Architectural Studies
Supervised independent work.
Credit Hour: 1-99
Prerequisites: instructor's consent

ARCHST 4085W: Problems in Architectural Studies - Writing Intensive
Supervised independent work.
Credit Hour: 1-12
Prerequisites: instructor's consent

ARCHST 4320: Materials, Methods and Products
Inherent qualities of materials used in the design of interior environments. Manufacturing, application, and installation methods. Focus on environmentally sensitive materials.
Credit Hours: 3
Recommended: ARCHST 2310

ARCHST 4323: Sustainable Technologies and Systems
An in-depth study of ecologically-sensitive and energy-efficient strategies used in building and interiors. Prerequisites: MATH 1100 or equivalent or MATH 1160 or higher level of math: MATH 1400 or MATH 1500.
Credit Hours: 3

ARCHST 4325: Energy-Efficient Building Design
Broad study of energy use and energy-efficient strategies for buildings. Course will cover the fundamentals of climate-based design, energy-efficient heating/cooling/daylighting strategies, alternative energy systems applicable to buildings, energy auditing/modeling/verification, applicable building energy codes, and high performance building technologies.
Credit Hours: 3
Prerequisites: MATH 1100

ARCHST 4332: Compliance and Specifications
Application of laws, codes, regulations, standards in specifying for life safety, barrier-free and universal design, lighting, human factors, and contract documents.
Credit Hours: 3
Prerequisites: ARCHST 2220 and ARCHST 2811

ARCHST 4355: Recent Trends in Digital Media I
Recent Trends in Digital Media I
Credit Hour: 1-99

ARCHST 4411: Study Abroad in Architectural History
Discovery of historic architecture through on-site tour of timeless cities and places. May be repeated for credit.

Credit Hour: 1-3
Prerequisites: instructor's consent

ARCHST 4430: Guiding Design with Historic Preservation
(cross-leveled with ARCHST 7430). Approaches to historic preservation; historic roots of architecture and interiors; regulations and design guidelines governing intervention; assessing significance of historic properties.
Credit Hours: 3
Recommended: American History or Government, or Art History

ARCHST 4435: History of the Designed Environment to 1750
An in-depth study of the designed environment including interiors, architecture, art, and the decorative arts within the major historical periods and cultural context from prehistory to the Industrial Revolution.
Credit Hours: 3

ARCHST 4440: Design Precedents: Architecture, Interiors and Furniture since the Industrial Revolution
(cross-leveled with ARCHST 7440). Analysis of historical exemplars of architecture, interiors and furniture design offering strategies for approaching contemporary design problems. Covers design precedents from industrial revolution to contemporary design.
Credit Hours: 3

ARCHST 4555: Recent Trends
Upper-division students seeking additional knowledge in specific subject matter areas including digital media software.
Credit Hour: 1-99

ARCHST 4630: Shaping Human Settlements
Review classic designs and designers, key concepts and enduring issues of community design within the overall framework of environmental design.
Credit Hours: 3

ARCHST 4700: Place-Making in Community Design
Ideologies, case studies and participatory methods on place-making in community design. Use processes to design a place-making scheme in actual community project.
Credit Hours: 3

ARCHST 4710: Design Business Practices
Analysis of basic professional, human, and business skills necessary for the successful design practice. Studio work in development of portfolio and self-marketing materials with refinement through critiques.
Credit Hours: 3

ARCHST 4760: Healthcare Facilities Design
(cross-leveled with ARCHST 7760). Health care facilities design and planning course provides an in-depth investigation of best practice examples. Design and research methods include evidence-based design,
simulation, and space syntax analysis leading to high-performance healthcare design. Graded on A-F basis only.

**Credit Hours:** 3  
**Recommended:** senior standing

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**ARCHST 4813: Interiors Studio III**  
Spatial morphology, organization pattern, construction methods, materials, systems, and processes and integration with total design processes. Space planning and spatial manipulation in response to social, environmental, functional, and aesthetics specific to interiors.

**Credit Hours:** 4  
**Prerequisites:** ARCHST 3182

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**ARCHST 4814: Interiors Studio IV**  
Continuation of ARCHST 4813. Manipulation of form and space responding to programmatic functions and activities, and constraints imposed by structure, building materials, spatial enclosure, and related factors. Projects may involve designing single-function space to multiple-function layered spaces--both vertically and horizontally.

**Credit Hours:** 4  
**Prerequisites:** ARCHST 4813

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**ARCHST 4815: Construction Documents and Building Information Modeling Studio**  
Studio of how materials, systems, and assemblies reinforce and extend intentions of designers. Course teaches strategies and techniques for integration and coordination of the building components and details in construction documents and building information modeling.

**Credit Hours:** 4  
**Prerequisites or Corequisites:** ARCHST 3230, ARCHST 4814 or ARCHST 4824, ARCHST 4860, ARCHST 4990

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**ARCHST 4823: Architectural Studio III**  
Continuation of ARCHST 3182. Spatial morphology, organization pattern, construction methods, materials, systems, and processes and integration with total design process. Space planning and spatial manipulation in response to social, environmental, functional, and aesthetics specifics to architecture.

**Credit Hours:** 4  
**Prerequisites:** ARCHST 3182

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**ARCHST 4824: Architectural Studio IV**  
Continuation of ARCHST 4823. Manipulation of form and space responding to programmatic functions and activities, and constraints imposed by structure, building materials, spatial enclosure, and related factors. Projects may involve designing single-function space to multiple-function layered spaces - both vertically and horizontally.

**Credit Hours:** 4  
**Prerequisites:** ARCHST 4823

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**ARCHST 4860: Programming for Thesis Design Studio**  
Develop written comprehensive program for thesis design studio project.

**Credit Hour:** 1  
**Prerequisites or Corequisites:** ARCHST 4814 or ARCHST 4824  
**Prerequisites:** ARCHST 2620

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**ARCHST 4940: Internship in Environmental Design**  
Field experience in design under professional and educational supervision. Graded on S/U basis only.

**Credit Hour:** 1-99  
**Prerequisites:** instructor's consent

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**ARCHST 4960: Readings in Architectural Studio**  
Readings in recent research materials.

**Credit Hour:** 1-99

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**ARCHST 4961: Design Research and Service Design**  
(cross-leveled with ARCHST 7961). Provides an overview of applied research methods for design and development of products, services and environments. Introduces human-centered approach to design research and Communication of research findings to informed design concepts.

**Credit Hours:** 3  
**Recommended:** senior standing

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**ARCHST 4962: Information Visualization and Visual Analytics**  
(cross-leveled with ARCHST 7962). Foundation for information visualization and deals with external representation and interactive manipulation of information, data or artifacts using digital tools to enhance communication, analytical reasoning and decision-making.

**Credit Hours:** 3  
**Recommended:** senior standing

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**ARCHST 4963: Human Factors Research for Design**  
(cross-leveled with ARCHST 7963). Investigate effect of people's physical psychological, social functions in environments of differing scales. Use research techniques of photo-interviewers, mapping, and user analysis to develop an appropriate program for redesign.

**Credit Hours:** 3  
**Recommended:** ARCHST 3860

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**ARCHST 4964: Design Thinking and Creative Process**  
(cross-leveled with ARCHST 7964). Analysis of how designers think, solve design problems, and engage in the creative process. Includes design methods, design cognition computations, and design protocol studies.

**Credit Hours:** 3  
**Recommended:** ARCHST 4813 or ARCHST 4823

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**ARCHST 4990: Thesis Design Studio**  
Comprehensive studio project as a synthesis of previous work in addressing a design problem defined in ARCHST 4860.

**Credit Hours:** 4  
**Prerequisites:** ARCHST 3230, ARCHST 4860, ARCHST 4814 or ARCHST 4824

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**ARCHST 7001: Topics in Environmental Design**  
Selected current topics in field of interest.

**Credit Hour:** 1-99
ARCHST 7085: Problems in Environmental Design
Supervised independent work.

Credit Hour: 1-99
Prerequisites: 3000-level course in field of problem and instructor's consent

ARCHST 7230: Computer Graphic Application for Design I
Applications of computer graphics for design and art; includes visualization, animation and creative development. May repeat up to 12 credit hours maximum.

Credit Hours: 3

ARCHST 7232: Graduate Design Communication I
Studio course in techniques and conventions of graphic communication as an aid in the design process of built forms.

Credit Hours: 3

ARCHST 7310: Graduate Building Systems
Integrated building systems; structure construction, technology, comfort; including voice-communications, safety, floor, wall, ceiling, mechanical, electrical, and plumbing systems, project estimating and management.

Credit Hours: 3
Prerequisites: MATH 1100 or MATH 1120

ARCHST 7315: Graduate Systems Laboratory
Experimental learning setting involving building construction systems, renovation, materials and finishes testing and experimentation. Focus on hands-on opportunities investigating building technology properties in detail. Laboratory 3 hrs/week.

Credit Hour: 1-9

ARCHST 7320: Materials, Methods and Products
Inherent qualities of materials used in the design of interior environments. Manufacturing, application, and installation methods. Focus on environmentally sensitive materials.

Credit Hours: 3
Prerequisites: MATH 1100 or MATH 1120

ARCHST 7323: Sustainable Technologies and Systems
An in-depth study of ecologically-sensitive and energy-efficient strategies used in buildings and interiors.

Credit Hours: 3

ARCHST 7325: Energy-Efficient Building Design
This course is a broad study of energy use and energy-efficient strategies for buildings. The course will cover the fundamentals of climate-based design, energy-efficient heating/cooling/daylighting strategies, alternative energy systems applicable to buildings, energy auditing/modeling/verification, applicable building energy codes, and high performance building technologies. Recommended for graduate students with undergraduate degrees and experience in engineering, architecture, and/or building science.

Credit Hours: 3

ARCHST 7333: Compliance and Specifications
Application of laws, codes, regulations, standards in specifying for life safety, barrier-free and universal design, lighting, human factors, and contract documents.

Credit Hours: 3
Prerequisites: T_A_M 2100 and MATH 1100 or MATH 1120

ARCHST 7355: Recent Trends in Digital Media I
Recent Trends in Digital Media I

Credit Hour: 2-4

ARCHST 7430: Guiding Design with Historic Preservation
(cross-leveled with ARCHST 4430). Approaches to historic preservation; historic roots of architecture and interiors; regulations and design guidelines governing intervention; assessing significance of historic properties.

Credit Hours: 3
Prerequisites: American History or Government or Art History or instructor's consent

ARCHST 7440: Design Precedents: Architecture, Interiors and Furniture since the Industrial Revolution
(cross-leveled with ARCHST 4440). Analysis of historical exemplars of architecture, interiors and furniture design offering strategies for approaching contemporary design problems. Covers design precedents from industrial revolution to contemporary design.

Credit Hours: 3

ARCHST 7555: Recent Trends in Environmental Design
Upper-division students seeking additional knowledge in specific subject matter areas including digital media software.

Credit Hour: 1-99

ARCHST 7620: Environment and Behavior
Evaluate relationships between human behavior and environmental design. Survey of environment and behavior theoretical foundations examining how these concepts translate into a more responsive theory of design.

Credit Hours: 3

ARCHST 7630: Shaping Human Settlements
Review classic designs and designers, key concepts and enduring issues of community design within the overall framework of environmental design.

Credit Hours: 3

ARCHST 7650: Psychosocial Function and Older Adults
(same as F_C_MD 7751, HMI 7751, H_D_FS 7751, NURSE 7751, P_HLTH 7751 and SOC_WK 7751). This course takes an interdisciplinary approach to understanding the psychosocial function of older adults and explores approaches to alleviate disabling conditions that interfere with psychosocial function and quality of life in old age. Graded on A-F basis only.
ARCHST 7700: Place-Making in Community Design
Ideologies, case studies and participatory methods on place-making in community design. Use processes to design a place-making scheme in actual community project.

Credit Hours: 3

ARCHST 7840: Graduate Design Studio
Advanced graduate level design experience emphasizing project complexity, design skill refinement, and optional development of thesis project strategies.

Credit Hours: 3
Prerequisites: instructor's consent

ARCHST 7940: Internship in Environmental Design
Field experience in design under professional and educational supervision. Graded on S/U basis only.

Credit Hour: 1-99
Prerequisites: instructor's consent

ARCHST 7960: Readings in Environmental Design
Readings in recent research materials.

Credit Hour: 1-99

ARCHST 7961: Design Research and Service Design
(cross-leveled with ARCHST 4961). Provides an overview of applied research methods for design and development of products, services and environments. Introduces human-centered approach to design research and communication of research findings to inform design concepts.

Credit Hours: 3

ARCHST 7962: Information Visualization and Visual Analytics
(cross-leveled with ARCHST 4962). Foundation for information visualization and deals with external representation and interactive manipulation of information, data or artifacts using digital tools to enhance communication, analytical reasoning and decision-making.

Credit Hours: 3

ARCHST 7963: Human Factors Research for Design
(cross-leveled with ARCHST 4963). Investigate effect of people’s physical psychological, social functions in environments of differing scales. Use research techniques of photo-interviewers, mapping, and user analysis to develop an appropriate program for redesign.

Credit Hours: 3

ARCHST 7964: Design Thinking and Creative Process
(cross-leveled with ARCHST 4964). Analysis of how designers think, solve design problems, and engage in the creative process. Includes design methods, design cognition and computations, and design protocol studies.

Credit Hours: 3

ARCHST 8001: Topics in Environmental Design
Selected current topics in field of interest.

Credit Hour: 1-99

ARCHST 8050: Research Methods in Environmental Design
A comparative study of quantitative and qualitative methods in environmental design with emphasis on research results and analyses. Lectures and seminar discussions.

Credit Hours: 3
Prerequisites: 12 hours advanced design

ARCHST 8085: Problems in Environmental Design

Credit Hour: 1-99
Prerequisites: 4000-level course in field of problem and instructor's consent

ARCHST 8090: Master's Research in Environmental Design
Independent research leading to a creative project. Graded on S/U basis only.

Credit Hour: 1-99

ARCHST 8230: Computer Graphic Application for Design II
Graduate level design experience emphasizing project complexity, design skill refinement, and use of digital media for design representation.

Credit Hour: 1-99

ARCHST 8600: Graduate Environmental Analysis
Analysis of design principles and organizational factors operating in a building by means of dissection. Volumetric disposition, circulation pattern, axes, structural system, materials, purpose, and symbolism.

Credit Hours: 3

ARCHST 8630: Philosophy of Environmental Design Research
Formal environmental design theory concerning historical precedents, current aesthetic trends, and design processes. Assignments investigate philosophical influences, architectonic vocabularies, and communication of idea and artifact. May be repeated up to 12 credit hours.

Credit Hours: 3

ARCHST 8633: Theoretical Perspectives of Design Computing
Key theoretical ideas underlying the relationship between design and computing. Main research topics relevant to current discourse in design computing.

Credit Hours: 3

ARCHST 8820: Graduate Digital Design Studio
ARCHST 8830: Digital Design Studio II
Advanced graduate level design experience emphasizing design, documentation, and representation using digital media. Optional development of graduate thesis project may be scheduled in this studio.
Credit Hours: 4

ARCHST 8840: Graduate Design Studio
Advanced graduate level design experience emphasizing project complexity, design skill refinement, and optional development of thesis project strategies.
Credit Hour: 1-99
Prerequisites: instructor's consent

ARCHST 8850: Seminar in Environmental Design
Reports, discussion of recent work in area of concentration.
Credit Hour: 1-4

ARCHST 887: Environment and Behavior II
Synthesis of environment and behavior themes in design research and application to professional practice. Research on socio-behavioral phenomena, user groups, places. Emphasis on integrated interactive character of elements.
Credit Hours: 3

ARCHST 8950: Qualitative Research Methods
Explores qualitative research methods as foundation for subsequent study. Focuses on qualitative research of the built environment. Course may be repeated for credit.
Credit Hours: 3

ARCHST 8960: Readings in Environmental Design
Readings in recent research materials.
Credit Hour: 1-99
Prerequisites: ARCHST 4960 or ARCHST 7960

ARCHST 8970: Thesis Project Proposal
The formal opportunity to express the intent and scope of the thesis project.
Credit Hour: 1
Prerequisites: instructor's consent

ARCHST 9055: Recent Trends in Environmental Design
For students seeking additional knowledge and understanding in specific subject matter areas.
Credit: 1-99

ARCHST 9900: Dissertation Proposal
A formal dissertation proposal is written and presented to the dissertation committee for approval.
Credit Hour: 1-9
Prerequisites: instructor's consent

ARCHST 9995: Pilot Project for Dissertation
Working with advisor, student proposes, conducts, and reports the findings from a pilot study germane to the dissertation topic in preparation for the dissertation research.
Credit Hour: 1-99
Prerequisites: instructor's consent