ISU Department of Architecture

Exchange Program Course Offerings

Semesters:
Fall (F) - late August through mid-December
Spring (S) - mid-January through early May

DESIGN STUDIOS:

All design studios are 6 credit hours: contact hours are MWF from 1:10 to 5:30pm.
Each semester the below studios are taught by a variety of faculty and each instructor will produce a specific studio description.
Studio descriptions will be made available to interested exchange program students at the request of the International Programs Director.

Course Code	Course Title	ISU Credits	Course Description	Semester
ARCH 301	Architectural Design III.	6	Foundation Studio: open to B. ARCH students in their third or fourth year of study. Consideration of landscape as a constructed, cultural artifact. Projects address the perceptual aspects and strategies of situation and location; examination of environmental phenomena and patterns of use and settlement as revealed and affected by the architectural artifact. Development of a critical design process is stressed.	F
ARCH 302	Architectural Design IV.	6	Foundation Studio: open to B. ARCH students in their third or fourth year of study. Examining housing in the urban situation; diverse scales of use and occupation within the city as shaped by cultural tendencies. Projects examine collective and individual identities related by the condition of adjacency, the ability to consider varieties of scale within a project, and a further development of critical and technical methods.	S

ARCH 401	Architectural Design V.	6	Advanced Studio: open to 4th & 5th year B. ARCH students & 1st & 2nd year M. ARCH students. A rigorous examination of how buildings participate sustainably in socio-political and environmental systems. Student projects consider in a comprehensive proposal how issues of physical site, socio-economic context, programming, structure, form, materiality, and building systems are interconnected through the design process and within the built environment. Projects typically focus on a smaller scale urban public building that is closely connected to its physical, environmental, and social context.	F
ARCH 402	Architectural Design VI.	6	Advanced Studio: open to 4th & 5th year B. ARCH students & 1st & 2nd year M. ARCH students. An examination of the relationship between architecture and the city. Studio projects stress analysis and interpretation of the diverse forces and conditions that impact and inform architecture in the urban environment. Urban design project. Study abroad option.	S
ARCH 403	Architectural Design VII.	6	Advanced Studio: open to 4th & 5th year B. ARCH students & 1st & 2nd year M. ARCH students. A rigorous examination of architecture's relationship with culture and technology. Studio projects stress the interpretation and integration of contextual and historical considerations, as well as structural, environmental, and communication systems, in a comprehensive design proposal.	F
ARCH 404	Architectural Design VIII.	6	Advanced Studio open to: 4th & 5th year B.ARCH & 1st & 2nd year M.ARCH students. Advanced forum for architectural research and/or design. Choice of thematic studios or student initiated research and design. Experimentation and innovation are encouraged.	S

ELECTIVE COURSES:

Elective courses for exchange students fall in various categories: history, theory, digital media, computation, drawing, etc.
The courses are seminar or lecture format for 3 credit hours with 3 contact hours per week.

Many of the below courses will produce semester by semester detailed course descriptions, which will be made available to interested exchange program students at the request of the international programs director.

The below elective courses are open to all exchange students between 3rd & 5th Year Bachelor of Architecture and/or 1st or 2nd Year Master of Architecture. Appropriateness for the exchange student - based on the difficulty level of the course - will be assessed on a case by case basis.

Course Code	Course Title	ISU Credits	Course Description	Semester
ARCH 321	History of the American City.	3	Study of the development of the built environment and urban condition in the United States from the colonial period to today. Through the theme of infrastructure, primary attention is given to urban spatial organization, built form, technological change, regulatory and funding patterns, and social categories such as class, race, and gender.	F
ARCH 351	Whole Building Energy Performance Modeling.	3	Architectural design, design evaluation and technical analysis using energy performance modeling tools. Emphasis will be given to whole building energy efficiency including passive and active systems integration.	F or S, not every year
ARCH 420	Topics in American Architecture.	3	History, theory, and principles of American architecture and urban design considering relationships to the culture, visual arts, site, and surroundings. Credit counts toward fulfillment of Studies in Architecture and Culture requirements. Nonmajor graduate credit. Specific course content varies each semester according to instructor.	F or S, not every year
ARCH 422	Topics in Medieval Architecture.	3	History, theory, and principles of medieval architecture and urban design considering relationships to the culture, visual arts, site, and surroundings. Credit counts toward fulfillment of Studies in Architecture and Culture requirements. Specific course content varies each semester according to instructor.	S
ARCH 423	Topics in Renaissance to Mid-Eighteenth Century Architecture.	3	History, theory, and principles of renaissance to mid-eighteenth century architecture and urban design considering relationships to the culture, visual arts, site, and surroundings. Specific course content varies each semester according to instructor.	F or S, not every year

ARCH 424	Topics in Nineteenth Century Architecture.	3	History, theory, and principles of nineteenth century architecture and urban design considering relationships to the culture, visual arts, site, and surroundings.	F or S, not every year
ARCH 425	Topics in Twentieth Century Architecture.	3	History, theory, and principles of twentieth century architecture and urban design considering relationships to the culture, visual arts, site, and surroundings.	F or S
ARCH 433	File to Fabrication.	3	Exploration of the computer as a design and manufacturing tool. Emphasis on fabrication techniques and rapid prototyping including laser-cutting, 3-D printing and CNC routing.	F, S
ARCH 436	Advanced Design Media.	3	Special topics in design media applications. Specific course content varies each semester according to instructor.	F, S
ARCH 437	Architectural Photography.	3	Emphasis on use of the camera and lighting in photographing drawings and interior and exterior building environments.	F
ARCH 519	Middle Eastern Cities	3	Introduction to basic academic writings on Middle Eastern cities in addition to other contemporary cultural productions of the region. Study of various aspects of Middle Eastern life and the built environments that this life produces.	F or S, not every year
ARCH 528	Topical Studies in Architecture (Theory Design & Drawing)	3	Each semester an exceptional selection of seminars are offered under this course code. Descriptions are available at the request of interested Exchange coordinators & students.	F, S
ARCH 529	Spatial Dialectics in the American Midwest.	3	The American Midwest has witnessed dramatic transformation during the last two centuries which impacted its physical, environmental, economic and social characteristics. This course is an interdisciplinary study of the evolution and sustainability of Midwestern space in relationship to forces of flow shaped by the mobility of bodies, products, meanings, and symbols that are enforced,incorporated, reproduced or destroyed.	F or S, not every year
ARCH 558	Sustainability and Green Architecture.	3	Issues of Sustainability as related to living patterns and city design, population, pollution and use and availability of natural resources for the built environment; Issues of Green Architecture as it relates to building material selection, systems of building materials, the environment of the United States and the World, architects and examples of buildings with green or sustainable designations.	F
ARCH 575	Contemporary Urban Design Theory.	3	Current urban design theory and its application to urban problems. Credit counts toward fulfillment of Studies in Architecture and Culture requirements.	S

ARCH 595.	Seminar on the Built Environment I: History.	5	Introduction to historical canons and traditions of architecture and urbanism. Discussion of the relationship between historical inquiry and contemporary practice. Students learn skills in critical thinking, visual analysis, and research methods. Course sessions develop thematically with interdisciplinary readings, group discussions, student presentations, and research projects.	F
ARCH 596	Seminar on the Built Environment II: Landscape and Society.	5	Introduction to landscape as artifact and multi-disciplinary knowledge-base for design thinking. Literatures and methods of environmental psychology, cultural geography, landscape and architectural history and theory, site and circulation design as intersection of built infrastructural, natural, and social systems. Emphasis on sensory perception, and human movement; investigations of climate, environmental conditions, and values toward consumption and sustainability in everyday experience of the built environment.	S
ARCH 597	Seminar on the Built Environment III: Theory.	3	Multidisciplinary overview of contemporary theories concerned with the production of the built environment. Particular attention to urbanism as a discourse that relates social interactions and power structures to material space.	F

BUILDING TECHNOLOGY

Under special conditions (and with permission) exchange students may be accepted to the required science and technology courses.

ARCH 341	Building Science and Technology II	5	Continued exploration of integrated architectural technology fundamentals in three modules: environmental, material, and structural technologies. Topics include environmental systems (building envelope systems and heat transfer, passive heating and cooling, daylighting, thermal comfort, analytical guidelines and calculation methods), materials & assemblies (composite building materials and framing systems) and structural systems (exploration relationship between applied forces and structural forms).	S
ARCH 342	Building Science and Technology III.	5	In-depth explorations of integrated architectural technology fundamental topics in three modules: environmental, material, and structural technologies with a focus on sustainable concepts and formal/material explorations. Examination of a design process that incorporates climate into the control of thermal, luminous, and acoustic environments. Introduction to plumbing systems. Complex construction assemblies and large-scale construction will be studied. Structural components (beams, columns, & slabs) will be designed, computed, and analyzed.	F
ARCH 343	Building Science and Technology IV.	5	In-depth explorations of fundamental integrated architectural technology topics in three modules: environmental, material, and structural technologies with a focus on sustainable concepts and formal/material explorations. An overview of active environmental control systems in response to occupant comfort, patterns of use, health, and safety regulations. Use and design of mechanical, electrical, plumbing, fire safety, transportation, and conveying systems and subsystems. Structural module investigates complex structural systems and behaviors with a focus on documentation and integration with other building technologies.	S
ARCH 445	Building Science and Technology V.	3	Technical topics which ground architectural design decisions and concepts in the physical world and the human perception thereof and have environmental sustainability as an emphasis. Synthesis of material, environmental, structural and systems design and related design modeling and simulation.	F