ARCH - Architecture

ARCH 121A, Introduction to Design, 3 Credits. (2 Lec) F,S,Su
PREREQUISITE: For majors and non-majors. Introduction to the design and creative process through global architecture and allied professions. Exploration of the history of design. Emphasis on 20th and 21st century architecture. Individual projects where students apply and explore creative process are required. Notebook computer required. Field trip required.

ARCH 151RA, Design Fundamentals I, 4 Credits. (2 Lec, 2 Lab)
A study of the creative design process with emphasis on two-dimensional design, basic three dimensional design concepts and introduction to the essential tools for graphic communication. Development of students' self-critical skills.

ARCH 152A, Design Fundamentals II, 4 Credits. (3 Std, 1 Lec)
A study of the design process and methods employed by design disciplines as an introduction to architectonic principles, architectural graphic skills and further understanding of the creative process. Development of student's ability to make critical and analytical judgments.

ARCH 253, Architectural Design I, 5 Credits. (1 Lec, 4 Lab) F
PREREQUISITE: Successful Completion of ARCH 151RA and ARCH 152A. Small-scale design projects requiring integration of spatial, visual concepts, emphasizing relationship of architecture to its context with principles of order, constituents of form, light, structural awareness, nature of materials, architectural coherency. Includes inclusive orthographic graphics design drawing conventions.

ARCH 254, Architectural Design II, 5 Credits. (1 Lec, 4 Lab) S
PREREQUISITE: ARCH 253 Small to medium-size projects extending the development of the design process to site and adjacency analysis, diagramming, fundamental relationship to landscape and context. Topics include hybrid uses of hand and digital graphic communication including 2D and 3D drawing and modeling.

ARCH 355, Architectural Design III, 5 Credits. (1 Lec, 4 Lab) F,S
PREREQUISITE: ARCH 254. Further exploration of ecologically-sound design with emphasis on the integration of structures, building envelope service systems, and building materials, including design for life safety and accessibility. Building scale and program complexity increases; utilizing long-span structural systems. Notebook computer required. Field trip required.

ARCH 356, Arch Design IV, 5 Credits. (1 Lec, 4 Lab) S
PREREQUISITE: ARCH 355. Advanced architectural design projects integrating site analysis, programming, building systems, and contemporary design theory. Emphasis placed on the inclusive synthesis of conceptual processes, analysis preliminary design investigation, and design development. Notebook computer required.

ARCH 357, Advanced Architectural Design, 3 Credits. (1 Lec, 2 Lab) S
PREREQUISITE: ARCH 355. Explores innovative design solutions responding to social and environmental contexts. Focus on complex urban and environmental issues, with emphasis on sustainable design strategies.

ARCH 414, Architectural Study Abroad, 9 Credits. (6 Lec, 3 Ind) F,Su
PREREQUISITE: ARCH 356. COREQUISITE: ARCH 428. Structured study in foreign countries under the direction of an architecture faculty member to obtain an understanding of modern and historical architecture and the forces shaping them. Holistic study of urban environments combines design, urban design, architectural history, drawing, and pre-travel design and research. Itineraries include opportunities for additional destinations and independent travel.

ARCH 428, Foreign Study History, 3 Credits. (2 Lec, 1 Ind) F,Su
PREREQUISITE: ARCH 356. COREQUISITE: ARCH 414. An on-site study in a foreign country of the social, cultural, and historic influences on architectural design. This course is only offered in conjunction with the foreign study program within the School of Architecture. Course shall include research on-site visits documented in an appropriate media form.

ARCH 431, Sustainability in Architecture, 3 Credits. (3 Lec) F,S,Su
PREREQUISITE: ARCH 332 and ARCH 356. Architectural and site strategies for reducing the energy footprint of structures and spaces with an emphasis on the profession's ethical responsibility and techniques that maximize the potential of active and passive design strategies to sustain our natural resources.

ARCH 451, Design for Community, 1-3 Credits. (1 Lec) (1-6 Ind; max 6 cr) On Demand
PREREQUISITE: ARCH 355. Students will be engaged in architecturally-related activities with government and non-profit agencies. This will enable students to be involved in a service learning academic experience.

ARCH 457, Architectural Design V, 5 Credits. (1 Lec, 4 Lab) S,Su
PREREQUISITE: ARCH 356. Senior capstone course. Architectural design integrating building, landscape, and urban context using multi-story projects of medium scale and complexity with particular focus on mixed-use. Integrated topics include programming structural and mechanical integration, ecologically-sound design, building envelope systems and building codes.

ARCH 471, Directed Research/Creative Act, 1-6 Credits. (1-6 Ind; max unlimited) F,S,Su
COREQUISITE: ARCH 472. Directed research/creative activity which may culminate in a research paper, journal article, or design project. May be repeated.

ARCH 473, Research/Project, 1-6 Credits. (1-6 Ind; max unlimited) F,S,Su
PREREQUISITE: Graduate standing or Seniors by petition. Small scale projects of varying scale and complexity in initiating new research and developing critical thinking and problem-solving skills.
ARCH 551. Advanced Arch Studio, 6 Credits. (4 Lab, 2 Stu) S,Su
PREREQUISITE: Graduate Standing. Design projects which explore specific critical positions with regard to contemporary architectural issues. Research and analysis of theoretical positions are emphasized along with the development of contemporary methods and techniques for analysis. Field trip required.

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<th>CRN</th>
<th>Section</th>
<th>Session/Dates</th>
<th>Days</th>
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ARCH 564. Adv Arch Graphics, 3 Credits. (3 Lab; max unlimited)
PREREQUISITE: Graduate Standing or Seniors by petition. Advanced architectural presentation strategies for exploring visual perception and design development through graphic exploration. May be taken more than once as topics vary.

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Font Notice
This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.