## Architecture (ARCH)

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>ARCH 002 Architectural History II 4 Credits</strong></td>
<td></td>
<td>Survey of architecture from the Renaissance to the present, examined in the context of culture formation, design concepts, and the built environment.</td>
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<tr>
<td><strong>ARCH 010 (CEE 010) Engineering/Architectural Graphics and Design 3 Credits</strong></td>
<td></td>
<td>Graphical communication of civil engineering or architectural projects using manual techniques and commercial state-of-the-art computer software. Topics include visualization and sketching; orthographic, isometric and other drawings; points, lines and planes in descriptive geometry; site design; overview of geographical information systems and 3D applications. Teamwork on design projects with oral and graphical presentations. Open to a limited number of architecture, design arts or other students with project roles consistent with students' background. Not available to students who have taken MECH 10.</td>
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<tr>
<td><strong>ARCH 033 Architectural Drawing 4 Credits</strong></td>
<td></td>
<td>Introduction to architectural hand drawing including orthographic, paraline, and perspective drawing types. Studio course.</td>
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<tr>
<td><strong>ARCH 034 Digital Drawing and 3D Modeling 4 Credits</strong></td>
<td></td>
<td>In our increasingly visual world we often need to present ideas in realistic, expressive, and engaging ways. This introductory course presents the basics of digital drawing and rendering through the lens of architecture, but is intended for students of all disciplines interested in visual communication. This project-based course focuses on the essentials of AutoCAD, SketchUp, and Revit supplemented with V-Ray and Photoshop for rendering.</td>
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<tr>
<td><strong>ARCH 035 Seoul: Everyday Life, Culture, and History 3 Credits</strong></td>
<td></td>
<td>This course, a study abroad winter term program, deals with the physical and cultural environment of the city of Seoul. The capital of South Korea is known for its rich historical heritage and economic and technological developments. Students will have opportunities to discuss and experience cultural, technological, and political currents of the city, as well as its traditions. The class will visit places of significance in the city.</td>
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<tr>
<td><strong>ARCH 036 Architectural Design I 4 Credits</strong></td>
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<td>This course introduces students to new ways of thinking about architecture and the perception of space, three-dimensional composition, drawing, and model-making. Previous or concurrent courses in studio art and/or architectural history are recommended.</td>
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<tr>
<td><strong>ARCH 107 History of American Architecture 4 Credits</strong></td>
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<td>Survey of American building from European colonization to the present.</td>
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<tr>
<td><strong>ARCH 113 Special Topics in Architecture 4 Credits</strong></td>
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<td>Directed projects for students in architecture. Student must initiate contact with sponsoring professor. Permission of Instructor required.</td>
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<tr>
<td><strong>ARCH 123 Visualization and Fabrication in Architecture 4 Credits</strong></td>
<td></td>
<td>This course concentrates on visualization and fabrication in architecture. Students are introduced to advanced architectural diagramming and model-making as well as conventional and digital representation skills. This course investigates architectural graphics as an active means of communication and as a generative element in organizing architectural space. Precedents and examples are extensively researched. All exercises are designed to enhance students' ability to imagine and visualize complex architectural forms and spaces. Various architectural materials are employed and tested.</td>
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<tr>
<td><strong>ARCH 126 (ART 126, THTR 126) History of Interior Design and Decor 4 Credits</strong></td>
<td></td>
<td>Survey of architectural interiors and décor examining public and domestic spaces and their contents in terms of period and style. Exploration of major art and design movements through the lens of interior spaces and objects within the context of culture and society.</td>
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<tr>
<td><strong>ARCH 134 Architecture and Urbanism of New York City 4 Credits</strong></td>
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<td>This course deals with the architecture and urbanism of New York City. It focuses on the twentieth century and occasionally covers other historical periods as well. With the direction of the instructor, students visit and analyze, formally and historically, important structures and places of the city such as museums, transportation hubs, offices, parks and other landmarks of interest. Cultural and sociological as well as architectural readings are offered and discussed. There are six mandatory field trips to New York City led by the instructor. Consent of instructor required.</td>
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<tr>
<td><strong>ARCH 143 Architectural Design II 4 Credits</strong></td>
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<td>Studio format, introductory course in architectural design which introduces students to new ways of thinking about architecture and the perception of space, three-dimensional composition, drawing, and model-making. Previous or concurrent courses in studio art and/or architectural history are recommended.</td>
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<tr>
<td><strong>ARCH 157 Architectural Technology I 4 Credits</strong></td>
<td></td>
<td>The two-course sequence (ARCH 157 &amp; ARCH 158) introduces the use of building materials, components and systems (slabs, walls, trusses, facade systems, etc.) while providing students with the knowledge to design and construct comfortable, technically sound and aesthetically pleasing buildings.</td>
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<tr>
<td><strong>ARCH 158 Architectural Technology II 4 Credits</strong></td>
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<td>The two-course sequence (ARCH 157 &amp; ARCH 158) introduces the use of building materials, components and systems (slabs, walls, trusses, facade systems, etc.) while providing students with the knowledge to design and construct comfortable, technically sound and aesthetically pleasing buildings.</td>
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<tr>
<td><strong>ARCH 159 Modern History and Sustainable Architecture in Munich 3 Credits</strong></td>
<td></td>
<td>This Lehigh faculty-led study abroad program allows students from an array of majors to earn three credits over winter break. The program will explore the history, culture, and architecture of Munich, a capital and center of the southern state of Germany, Bavaria. The program of study does not require German language skills.</td>
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<tr>
<td><strong>ARCH 171 Special Topics in Architecture 1-4 Credits</strong></td>
<td></td>
<td>Directed projects for students in architecture. Student must initiate contact with sponsoring professor. Must have major standing in department and/or consent of instructor.</td>
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</tbody>
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**Attribute/Distribution:**
- HU
- ND
- SS

**Repeat Status:**
- Course may be repeated.

**Prerequisites:**
- ART 004
- ART 001 and ARCH 002

**Course may be repeated.**
ARCH 174 (ANTH 174, ART 174, CLSS 174) Greek Archaeology 4 Credits
Ancient Greek cultures from the neolithic to hellenistic periods. Reconstructions of Greek social dynamics from study of artifacts.
Attribute/Distribution: SS

ARCH 176 (ANTH 176, ART 176, CLSS 176) Roman Archaeology 4 Credits
Cultures of the Roman Empire. Reconstructions of social, political, and economic dynamics of the imperial system from study of artifacts.
Attribute/Distribution: SS

ARCH 187 Synthetic Space 4 Credits
This course addresses formal concerns in contemporary architecture. Synthetic space exists between the actual and the virtual, between the analogue and the digital. The course will be a pure exploration of the possibilities of space, through animation and creative model making and deployment of parametric modeling software, film sets and motion graphics. Software tutorials will be given as needed.
Attribute/Distribution: HU

ARCH 209 Architecture and Ideas 4 Credits
Examination of philosophical, technological, and cultural forces shaping Western architecture and urbanism. Writing intensive.
Prerequisites: ART 001 and ARCH 002
Attribute/Distribution: HU

ARCH 210 20th Century Architecture 4 Credits
History and theories of modern and contemporary architecture. Analysis of buildings, architects, theories and manifestos from the early 20th century to the present.
Prerequisites: ART 001
Attribute/Distribution: HU

ARCH 211 Architectural Drawing/Analysis and Expressions 3 Credits
This studio course is part of the Lehigh in Italy summer program and will utilize several different architectural drawing techniques to study aspects of architecture from analysis of a piazza to architecture in detail. It will employ pencil sketching, charcoal drawing, and watercolor. These drawings will act as a way of seeing the Italian urban landscape and supplement the study and analysis of the Italian architects' contemporary work. Fulfills an art studio elective requirement.
Attribute/Distribution: HU

ARCH 212 The Architecture of Carlos Scarpa/Theory and Practice 3 Credits
This course which is part of the Lehigh in Italy summer program will survey several of the Venetian architect's most famous works. Meet with architects who worked with Scarpa and completed his unfinished projects. Explore thematic principles behind Scarpa's work, their origin and role in his unique process of design.
Attribute/Distribution: HU

ARCH 214 Architecture and the City since WWII 4 Credits
Architectural and urban theories and projects from 1945 to the present. Analysis of the relationship between architecture and the city.
Prerequisites: (ARCH 002 or ART 002)
Attribute/Distribution: HU

ARCH 243 Architectural Design III 4 Credits
Design principles of space and form and issues of “materiality,” “structure,” “modes of representation” and the “process of making.”
Repeat Status: Course may be repeated.
Attribute/Distribution: HU

ARCH 253 (GS 253, HIST 253) Paris: Plan of Metropolis 3 Credits
The splendor of modern Paris is due in large part to bold, large scale modernization and changes in the city’s patterns during the 19th century. This course, which is part of the Lehigh in Paris summer program, will cover a century of change and focus on the major accomplishments of its visionary planners.
Attribute/Distribution: HU

ARCH 271 Special Topics in Architecture 1-4 Credits
Directed projects for advanced students in architecture or architectural criticism. Must have major standing in the department or permission of the instructor. Student must contact sponsoring professor and complete a contract sheet at preregistration.
Repeat Status: Course may be repeated.
Attribute/Distribution: RU

ARCH 300 Apprentice Teaching 1-4 Credits
Supervised participation in various aspects of the teaching of a course. Transcript will identify department in which apprentice teaching was performed. Consent of department chair required. The transcript will reflect the subject area in which the teaching was done.
Repeat Status: Course may be repeated.

ARCH 311 Portfolio 1 Credit
The concept, layout, and preparation of a portfolio for graduate school application or employment search, including graphic techniques and reproduction method. Student must contact sponsoring professor.
Prerequisites: ARCH 243
Attribute/Distribution: RU

ARCH 325 Issues in Contemporary Architecture 4 Credits
Seminar on selective architectural topics from the 1960s to the present. Analysis of important architectural projects and theories. Interaction among architecture and social, economic, political and technological changes.
Prerequisites: ART 001 and ARCH 002
Attribute/Distribution: HU

ARCH 342 Theory of Form and Materials 4 Credits
Study of the genesis of form, its representation and its interrelationship to related artistic disciplines. Formal notions will be studied, compared and manipulated through the role of time, scale, perceptual analysis and material transformation. Consent of instructor required.
Attribute/Distribution: HU

ARCH 343 Architectural Design IV 4 Credits
The design of buildings and building groups, with the emphasis on urban design and the city.
Repeat Status: Course may be repeated.
Attribute/Distribution: HU

ARCH 389 Honors Project 1-8 Credits
Repeat Status: Course may be repeated.