### Architecture (ARCH)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 002</td>
<td>History of Architecture 4</td>
<td>4</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>ARCH 043</td>
<td>Architectural Design I 4</td>
<td>4</td>
<td>Fundamental design studio for architecture majors. Composition, spatial concepts; precedent; materials and detail; light and color in architecture. Instruction in basic communication techniques. Recommended to be taken concurrently with ARCH 034.</td>
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<tr>
<td>ARCH 126</td>
<td>History of Interior Design and Decor 4</td>
<td>4</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>ARCH 132</td>
<td>Visualization and Fabrication in Architecture 4</td>
<td>4</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 medium 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>ARCH 143</td>
<td>Architectural Design II 4</td>
<td>4</td>
<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. Recommended to be taken concurrently with ARCH 157.</td>
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</tbody>
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### ARCH 157 Architectural Technology I 4 Credits
The two-course sequence (ARCH 157 & 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. Recommended to be taken concurrently with ARCH 143.

### ARCH 158 Architectural Technology II 4 Credits
The two-course sequence (ARCH 157 & 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. Recommended to be taken concurrently with ARCH 243.

### ARCH 159 Modern History and Sustainable Architecture in Munich 3 Credits
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. Fulfills an history/theory elective requirement for the BA in Architecture major.

### ARCH 171 Special Topics in Architecture 1-4 Credits
Directed projects for students in architecture. Student must initiate contact with sponsoring professor. Must have major standing in department and/or consent of instructor.

### 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.

### 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.

### 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.

### ARCH 209 Architecture and Ideas 4 Credits
Examination of philosophical, technological, and cultural forces shaping Western architecture and urbanism. Writing intensive.

### 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.

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**Lehigh University 2021-22**
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 roll in his unique process of design.
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.” Recommended to be taken concurrently with ARCH 158, except for Arts Engineers and non-majors.
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: HU

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 Architectural Portfolio 4 Credits
The course will aid students in the concept, layout, and preparation of a portfolio for graduate school application or employment search. Graphic techniques and reproduction methods will be emphasized via software workshops and weekly feedback. Recommended to be taken with ARCH 343. Non-architecture majors interested in taking the course should contact the instructor.
Repeat Status: Course may be repeated.
Prerequisites: ARCH 243
Can be taken Concurrently: ARCH 243
Attribute/Distribution: HU

ARCH 335 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. Recommended to be taken concurrently with ARCH 311.
Attribute/Distribution: HU

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