Architecture (ARCH)

Department Office
115 Vol Walker Hall
479-575-4705

The Bachelor of Architecture prepares students for registration and licensure to practice architecture. Architects are licensed professionals trained in the art and science of the design and construction of buildings and structures that primarily provide shelter. Additionally, architects may be involved in designing the total built environment—from how a building integrates with its surrounding landscape to architectural or construction details that involve the interior of the building to designing and creating furniture to be used in a specific space. An architect will create the overall aesthetic and look of buildings and structures, but the design of a building involves far more than its appearance. Buildings also must be functional, safe and economical and must suit the specific needs of the people who use them. Most importantly, they must be built with the public's health, safety and welfare in mind.

The Department of Architecture also offers a minor in History of Architecture and Design with different courses available for students in the Fay Jones School of Architecture and Design and for those students from outside the school.

Architecture – National Architectural Accrediting Board

In the United States, most registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit professional degree programs in architecture offered by institutions with U.S. regional accreditation, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted an eight-year, three-year, or two-year term of accreditation, depending on the extent of its conformance with established educational standards. Doctor of Architecture and Master of Architecture degree programs may require a pre-professional undergraduate degree in architecture for admission. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Arkansas Fay Jones School of Architecture and Design's department of architecture offers the following NAAB-accredited degree program:

- B.Arch. (159 undergraduate credits)

The last accreditation visit for the B.Arch. programs was conducted in February 2014; the date of the next visit will be announced in spring 2022.

The National Architectural Accrediting Board (NAAB) only accredits professional programs offering the Bachelor of Architecture, which requires a minimum of five years of study, and the Master of Architecture degrees. These professional degrees are structured to educate those who aspire to registration and licensure to practice as architects. The curricular requirements for awarding these degrees must include three components—general studies, professional studies, and electives. Together these three components comprise a liberal education in architecture and ensure that graduates will be technically competent, critical thinkers who are capable of defining multiple career paths within a changing societal context.

No four-year degrees are accredited by NAAB, but the Bachelor of Science in Architectural Studies degree is excellent for those who want a foundation in the field of architecture as preparation for either continued education in a professional degree program or for employment in fields related to architecture.

Bachelor of Architecture Degree

Course List

1. Completion of the following 94-hour professional program:

   **Architectural Design**
   
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 1015 Fundamental Design Skills</td>
<td>5</td>
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<tr>
<td>ARCH 1025 Fundamental Design Methodology</td>
<td>5</td>
</tr>
<tr>
<td>ARCH 2016 Architectural Design III</td>
<td>6</td>
</tr>
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<td>ARCH 2026 Architectural Design IV</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 3016 Architectural Design V</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 3026 Architectural Design VI</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 4016 Comprehensive Studio I</td>
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</tr>
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<td>ARCH 4026 Comprehensive Studio II</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 5016 Option Studio I</td>
<td>6</td>
</tr>
<tr>
<td>ARCH 5026 Option Studio II</td>
<td>6</td>
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   **Architectural Technology**
   
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ARCH 1212 Design Thinking I: Foundations in Technology</td>
<td>2</td>
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<tr>
<td>ARCH 2113 Architectural Structures I</td>
<td>3</td>
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<td>ARCH 2123 Architectural Structures II</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 2132 Environmental Technology I</td>
<td>2</td>
</tr>
<tr>
<td>ARCH 3143 Building Materials and Assemblies</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 3253 Environmental Technology II</td>
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<td>ARCH 4152 Building Systems Integration</td>
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   **History and Theory of Architecture**
   
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ARCH 1222 Design Thinking II: Foundations in History</td>
<td>2</td>
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<tr>
<td>ARCH 2233 History of Architecture I</td>
<td>3</td>
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<tr>
<td>ARCH 2243 History of Architecture II</td>
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<tr>
<td>ARCH 4433 History of Architecture III</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 4523 Architectural Theory</td>
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   **Professional Practice**
   
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 5314 Architectural Professional Practice</td>
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</tbody>
</table>

   **Total Hours**
   
   **94**

2. Completion of the 35-hour general state minimum core (http://catalog.uark.edu/undergraduatecatalog/gened/stateminimum/) requirements. In addition, specific requirements are listed below:

   **Mathematics**
   
   Select one of the following: **3**
   
   - MATH 1213 Plane Trigonometry (ACTS Equivalency = MATH 1203)
   - MATH 2033 Mathematical Thought
   - MATH 2043 Survey of Calculus (ACTS Equivalency = MATH 2203)
   - MATH 2053 Finite Mathematics

   **Laboratory Science**
   
   Required
   
   Select one of the following: **4**
PHYS 1044  Physics for Architects I
PHYS 2013  College Physics I (ACTS Equivalency = PHYS & PHYS 2011L2014 Lecture)
and College Physics I Laboratory (ACTS Equivalency = PHYS 2014 Lab)

Strongly Recommended
Select one of the following: 4
PHYS 1054  Physics for Architects II
PHYS 2033  College Physics II (ACTS Equivalency = PHYS & PHYS 2031L2024 Lecture)
and College Physics II Laboratory (ACTS Equivalency = PHYS 2024 Lab)

3. Completion of 30 hours of electives, as follows:

**Professional Electives** 15

Chosen from upper-level courses (courses numbered 3000 or above) taught on the Fayetteville campus in the Fay Jones School of Architecture and Design and allied disciplines. Students participating in the Rome program may present Architecture of the City (ARCH 4653) for professional elective credit. All other elective courses will be used to fulfill free elective requirements.

**Free Electives** 13

Total Hours 28

4. A minimum of 157 hours with a 2.00 cumulative grade-point average at this institution both in all work attempted and in all professional course work attempted is required.

5. Participation for at least one semester in an approved international educational experience. (See Off-Campus Study Requirement (http://catalog.uark.edu/undergraduatetcatalog/collegesandschools/fayjonesschoolofarchitecture/)).

NOTE: No more than three hours of physical education and/or R.O.T.C. may be counted toward a degree. Courses not acceptable toward degree credit include those of a remedial or orientation nature and whose content are considered to be measurably duplicated elsewhere in the curriculum. ARCH 1003 is not counted toward degree credit for architecture majors. University Perspectives (UNIV 1001) does not count towards degree credit.

By following the preceding curriculum, students will meet the state minimum core requirements. They must also meet all other university requirements for graduation. See the university Academic Regulations (http://catalog.uark.edu/undergraduateregulations/).

Sample curriculum for the Bachelor of Architecture degree can be obtained from the school’s advising center.

**Professional Licensure Degree Requirement**

The National Architectural Accrediting Board (NAAB) only accredits professional programs offering the Bachelor of Architecture, which requires a minimum of five years of study, and the Master of Architecture degrees. These professional degrees are structured to educate those who aspire to registration and licensure to practice as architects. The curricular requirements for awarding these degrees must include three components — general studies, professional studies, and electives. Together these three components comprise a liberal education in architecture and ensure that graduates will be technically competent, critical thinkers who are capable of defining multiple career paths within a changing societal context.

While no four-year degrees are accredited by NAAB, the Bachelor of Science in Architectural Studies degree is excellent for those who want a foundation in the field of architecture as preparation for either continued education in a professional degree program or for employment in fields related to architecture.

**Architecture B.Arch. Ten-Semester Degree Program**

The professional program for a Bachelor of Architecture Degree requires 10 semesters of coursework and is not eligible for the Eight-Semester Degree Completion Program. It also requires admission to the professional program after the third year of classes. However, the following 10-semester sample plan shows how a first-year student could obtain a Bachelor of Architecture Degree in five years if the student is admitted to the Fall-Spring Architectural Design Studio and subsequently is admitted to the professional program. Students not accepted into the fall studio will begin ARCH 1015 in the first summer session (granted all fall requirements are met) followed by ARCH 1025 in the second summer session.

Students should be aware that PHYS 1044, PHYS 1054 (or an approved alternate laboratory science in the state minimum core) and one of the listed MATH courses must be completed before students can begin second-year courses in Architecture. Transfer students and students who change majors and seek exceptions to the sample curriculum will be reviewed on an individual basis.

Students in the professional program are required to participate in an approved study abroad experience. Students can chose from either a fall or spring semester of 4th year in Rome, Italy or a summer program (summer prior to 4th or 5th year) in a designated Latin or Central American country. Students can elect to participate in both but only one program can serve as a substitution for one fourth-year studio session. Should a student participate in both study aboard programs, the additional program would go to professional elective hours.

**First Year**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ARCH 1015</td>
<td>Fundamental Design Skills</td>
<td>5</td>
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<tr>
<td>ARCH 1212</td>
<td>Design Thinking I: Foundations in Technology</td>
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<td></td>
</tr>
<tr>
<td>ENGL 1013</td>
<td>Composition I (ACTS Equivalency = ENGL 1013)</td>
<td>3</td>
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<tr>
<td>HIST 2003</td>
<td>History of the American People to 1877 (ACTS Equivalency = HIST 2113)</td>
<td>3</td>
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<tr>
<td>HIST 2033</td>
<td>History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123)</td>
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<td>PLSC 2003</td>
<td>American National Government (ACTS Equivalency = PLSC 2003)</td>
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<td>PHYS 1044</td>
<td>Physics for Architects I</td>
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<tr>
<td>UNIV 1001</td>
<td>University Perspectives</td>
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</tbody>
</table>

See Footnote 1

ARCH 1025 Fundamental Design Methodology
ARCH 1222 Design Thinking II: Foundations in History
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) 3

Select from one of the following: 3
MATH 2053 Finite Mathematics
MATH 1213 Plane Trigonometry (ACTS Equivalency = MATH 1203)
MATH 2033 Mathematical Thought
MATH 2043 Survey of Calculus (ACTS Equivalency = MATH 2203)

PHYS 1054 Physics for Architects II 4

Year Total: 17 17

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Units</th>
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<tr>
<td>ARCH 2016 Architectural Design III</td>
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<tr>
<td>ARCH 2113 Architectural Structures I</td>
<td>Spring 3</td>
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<tr>
<td>ARCH 2132 Environmental Technology I</td>
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</tr>
<tr>
<td>ARCH 2233 History of Architecture I</td>
<td></td>
</tr>
<tr>
<td>Social Science Core</td>
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</tr>
<tr>
<td>ARCH 2026 Architectural Design IV</td>
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</tr>
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<td>ARCH 2123 Architectural Structures II</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 2243 History of Architecture II</td>
<td>3</td>
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<tr>
<td>Social Science Core</td>
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<tr>
<td>Fall 17</td>
<td>Spring 15</td>
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<table>
<thead>
<tr>
<th>Third Year</th>
<th>Units</th>
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<tr>
<td>ARCH 3016 Architectural Design V</td>
<td>Fall 6</td>
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<tr>
<td>ARCH 3143 Building Materials and Assemblies</td>
<td>Spring 3</td>
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<tr>
<td>ARCH 4433 History of Architecture III</td>
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<tr>
<td>Fine Arts or Humanities Core</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 3026 Architectural Design VI</td>
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<tr>
<td>ARCH 3253 Environmental Technology II</td>
<td>6</td>
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<tr>
<td>ARCH 4523 Architectural Theory</td>
<td>3</td>
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<tr>
<td>Social Science Core</td>
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<tr>
<td>Fine Arts or Humanities Core</td>
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<tr>
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<th>Fourth Year</th>
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<tbody>
<tr>
<td>Fall Rome Semester</td>
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<tr>
<td>ARCH 4116 Architectural Design - Rome</td>
<td>Fall 6</td>
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<tr>
<td>ARCH 4653 Architecture of the City</td>
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<td>Spring On Campus Semester</td>
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<td>ARCH 4026 Comprehensive Studio</td>
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<tr>
<td>ARCH 4152 Building Systems Integration</td>
<td>6</td>
</tr>
<tr>
<td>Professional Elective</td>
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</tr>
<tr>
<td>Free Elective</td>
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<td>See Footnote 3</td>
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<tr>
<td>Year Total:</td>
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<td>Fall 15</td>
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Total Units in Sequence: 159

Fifth Year

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<tr>
<th>Units</th>
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<tbody>
<tr>
<td>Fall</td>
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<td>ARCH 5016 Option Studio I</td>
</tr>
<tr>
<td>Free Elective</td>
</tr>
<tr>
<td>ARCH 5314 Architectural Professional Practice</td>
</tr>
<tr>
<td>Professional Elective</td>
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<tr>
<td>ARCH 5026 Option Studio II</td>
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<tr>
<td>Professional Electives</td>
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<tr>
<td>Free Elective</td>
</tr>
<tr>
<td>Year Total:</td>
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<td>16</td>
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</table>

Note 1: Students are reviewed at the end of the fall semester and may continue the program if they meet the following criteria: “C” or better in ARCH 1015, Architectural Design I; “C” or better in PHYS 1044, Physics for Architects I or an approved equivalent; “C” or better in ARCH 1212, Design Thinking I: Foundations in Technology; Maintain a 2.0 GPA. Students who do not meet these criteria will receive a letter and be advised accordingly.

Note 2: All university core courses must be completed by the end of the third year. Admission to ARCH 4016 is contingent upon admission to the professional program.

Note 3: If the student participates in the Rome program in the spring semester, the course plan for fourth year is reversed. Students may also choose to participate in the 10-week Latin American study abroad program in the summer before their 3rd or 4th year. If a student chooses to do both programs, only one studio will count towards the required studio sequence. The additional hours may count towards professional programs.

Academic Policies

In addition to the requirements of the university, the following academic policies are applicable to all students in the Department of Architecture.

1. Any student receiving a grade of “D (+/-)” in a pre-professional program studio course is subject to a comprehensive review of his/her semester’s work by the Design Review Committee. The committee can require the student to retake the studio, prior to advancing to the next studio in sequence, in order to demonstrate competence by achieving a grade of “C” (2.00) or better. A student receiving an “F” in any required design studio must repeat that studio before progressing.

2. Each student’s progress through the Design Studio sequence is monitored and governed by the faculty and subject to a design review process.

3. Admission to the Professional Degree Program in the Department of Architecture requires a minimum 2.00 grade-point average in the University Core and each of the sub-disciplines of Architectural History/Theory, Technology, and Design.

4. Enrollment in any 4th year design studio, including comprehensive design studio (ARCH 4016 or ARCH 4026), the Rome Center Design Studio (ARCH 4116), and the Latin American summer studio (ARCH 4126) is contingent upon admission to the professional program in architecture as described above.

5. Successful completion of the upper level studios of the professional degree program (ARCH 4016, ARCH 4026, ARCH 4116, ARCH 4126,
ARCH 5016, and ARCH 5026) requires demonstration of competence as evidenced by achieving a grade of "C" (2.00) or better in those courses. Failure to achieve this minimum standard will require retaking the studio.

6. Any student receiving an “I” in a design studio must complete all work necessary to receive a grade in that studio prior to the first day of the next studio in the student’s prescribed sequence. Students carrying a grade of “I” will not be permitted to enroll in subsequent studios.

7. Prior to graduation, a student must present a 2.00 cumulative grade-point average in all work at this institution.

**Design Review (Grade Appeal) Procedure**

**The Design Review Process**

Design Review is a process initiated by a faculty member, the Department Head or a student in order that (1) a faculty member may review a student’s design work within a studio course, or (2) a student may appeal grades and/or seek resolution of conflicts with studio faculty in which it is believed that questions of fairness and equity have been raised by the application of the published grading policy of the faculty member. Faculty reviews are predicated upon, but are not limited to, the review of student work that has received a “D” grade or lower.

The Department Head will appoint a Design Review (Appeals) Committee at the beginning of each academic year. The Committee shall be composed of three (3) members of the permanent faculty. Additional or alternate members of the Committee may be appointed at the discretion of the Department Head or the Associate Dean.

Grade appeals initiated by students will occur during the week prior to the start of classes in the subsequent semester. Grade appeals may be filed through petition to the Office of the Associate Dean as soon as the student receives his or her final grade, but no later than the first day of the subsequent semester, (Monday of the week prior to the start of classes). In instances when the appeal concerns a change of an incomplete grade, petition for review should be made as soon as possible after the award of the final grade, and the review will be scheduled at the discretion of the Associate Dean.

**Protocol for the Design Review (Appeal) Process**

1. Students are encouraged to meet with the faculty member(s) who has awarded the contested grade prior to filing a grade appeal. The student may request that his/her faculty advisor, a member of the professional advising staff, or the Associate Dean facilitate this meeting.

2. When a Design Review (Appeal) has been scheduled, the student shall exhibit, at the place and time specified by the Associate Dean’s office, ALL work assigned and attempted for the studio in the semester under review. Faculty are required to provide the Design Committee with the course syllabus, grading policy, semester assignments, mid-term course assessment, and a written evaluation (a one-page rationale) of the full semester’s work at least 48-hours in advance of the Design Review.

3. The Design Review (Appeal) will consist of separate and independent meetings of the Design Review (Appeal) Committee with the student and the faculty member(s). Following these meetings, the Committee will convene to evaluate the merits of the review (appeal). The Committee is expected to serve as both objective reviewers of the work and as advisers to the student.

4. The Design Review (Appeal) committee will keep minutes of its deliberations. All recommendations from the Committee shall have written explanations and/or justifications, which will be provided to the student, the faculty member, and the Associate Dean, and made part of the student’s academic file. The Associate Dean will be responsible for communicating the results of a Review (Appeal) to the student.

**The outcome of the Design Review**

1. A recommendation to the faculty member regarding the grade appeal of the student. Action upon that recommendation is undertaken solely at the discretion of the faculty member. No faculty member is compelled to change a grade in response to the recommendation of the Design Review Committee.

2. A requirement for the student to repeat the design studio course and any co-requisite.

3. A recommendation for enrollment in the subsequent studio course, while advising the student of the need to achieve and maintain a cumulative 2.00 (in the studio sequence) for admission to the professional program.

4. An academic advising plan to guide the student toward successful completion of his/her degree requirements or the pursuit of an alternate career path.

All efforts shall be made to achieve clarity and reconciliation, so that the student is able to move forward positively in his/her academic career.

**Requirements for a Minor in History of Architecture and Design**

**Pre-requisites for the Minor in History of Architecture and Design (HARD-M):**

For Fay Jones School students:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ARCH 1015</td>
<td>Fundamental Design Skills</td>
</tr>
<tr>
<td>LARC 1311</td>
<td>Fundamental Design Skills</td>
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<td>IDES 1031</td>
<td>Fundamental Design Skills</td>
</tr>
<tr>
<td>ARCH 1025</td>
<td>Fundamental Design Methodology</td>
</tr>
<tr>
<td>LARC 1321</td>
<td>Fundamental Design Methodology</td>
</tr>
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<td>IDES 1041</td>
<td>Fundamental Design Methodology</td>
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<tr>
<td>ARCH 1212</td>
<td>Design Thinking I: Foundations in Technology</td>
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<tr>
<td>ARCH 1222</td>
<td>Design Thinking II: Foundations in History</td>
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For all other students:

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ARCH 1003</td>
<td>Basic Course in the Arts: Architecture Lecture</td>
</tr>
<tr>
<td>LARC 1001</td>
<td>Basic Course in the Arts: The American Landscape</td>
</tr>
<tr>
<td>ARHS 1001</td>
<td>Basic Course in the Arts: Art Lecture (ACTS Equivalency = ARTA 1003)</td>
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**History of Architecture and Design Core Courses**: 9

Select three courses from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ARCH 2233</td>
<td>History of Architecture I</td>
</tr>
<tr>
<td>ARCH 2243</td>
<td>History of Architecture II</td>
</tr>
<tr>
<td>ARCH 4433</td>
<td>History of Architecture III</td>
</tr>
<tr>
<td>ARCH 4523</td>
<td>Architectural Theory</td>
</tr>
<tr>
<td>LARC 3413</td>
<td>History of Landscape Architecture I</td>
</tr>
<tr>
<td>LARC 4413</td>
<td>History of Landscape Architecture II</td>
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<td>LARC 4033</td>
<td>Landscape Architecture Theory</td>
</tr>
<tr>
<td>IDES 2883</td>
<td>History of Interior Design</td>
</tr>
</tbody>
</table>
Advanced History of Architecture and Design Courses

Select 9 credit hours of 3000-plus level courses from the following:

ARCH 4553 Modern Architecture in Mexico
ARCH 4673 Modern and Contemporary Rome
ARCH 4843 Medieval Architecture
ARCH 4853 Renaissance and Baroque Architecture
ARCH 4863 Saint Peter's and the Vatican
ARCH 5493 History of Urban Form
ARCH 4023 Advanced Architectural Studies (variable topics in history of architecture)
LARC 402V Special Studies (variable topics in the history of landscape architecture)

Total Hours 18

1 A Fay Jones School student can present only 9 hours of courses required for the major field of study for credit for the minor. 3000-plus courses that are not required for the major can be presented for “advanced” credit in the minor.

2 Only 3 hours of credit earned in Study Abroad courses can be presented for credit toward the History of Architecture and Design minor.

3 A menu of variable topics courses that will qualify for credit toward the History of Architecture and Design Minor is published every semester.

Faculty

Baker, Emily, M.Arch. (Cranbrook Academy of Art), B.Arch. (University of Arkansas), Assistant Professor, 2017.
Blackwell, Marlon, M.Arch. (Syracuse University), B.Arch. (Auburn University), Distinguished Professor, 1992.
Boelkens, Jonathan, M.Arch. (Washington University in St. Louis), B.Arch. (University of Arkansas), Instructor, 2017.
Buege, David, M.A. (Princeton University), Professor, 2009.
Colangelo, Jessica L., M.Arch. (Princeton University), B.Arch. (Rice University), Assistant Professor, 2018.
Del Gesso, Emilio, B.A. (University of Rome), Assistant Professor, 1997.
Fitzpatrick, Lynn, M.Arch. (Rice University), B.S. (Cornell University), Assistant Professor, 1999.
Herman, Greg, M.Arch. (Rice University), B.Arch. (University of Cincinnati), Associate Professor, 1991.
Holland, Brian, M.Arch.,(University of Pennsylvania), B.Arch., (California State Polytechnic University, Pomona), Assistant Professor, 2018.
Jacobus, Frank R., M.Arch. (University of Texas at Austin), Associate Professor, 2012.
Luoni, Stephen D., M.Arch. (Yale University), B.S.Arch. (Ohio State University), Professor, 2003.
MacKeith, Peter, M.Arch. (Yale University), B.A. (University of Virginia), Professor, 2014.
Messadi, Tahar, Ed.D., M.Arch. (University of Michigan-Ann Arbor), B.Arch. (Universite de Constantine, Algeria), Associate Professor, 2003.
Rotolo, Chuck, M.Arch. (Washington University in St. Louis), B.Arch. (Louisiana State University), Assistant Professor, 2005.
Rudzinski, Russell D., M.A. (Washington University in St. Louis), B.Arch. (Syracuse University), Assistant Professor, 2000.
Sexton, Kim, Ph.D., M.A., M.Phil. (Yale University), B.A. (State University of New York at Binghampton), Associate Professor, 1999.

Shannon, Graham F., M.Arch. (Rice University), B.Arch., B.A. (University of Arkansas), Professor, 1979.
Terry, Laura, M.F.A. (Savannah State University), B.S. (Auburn University), Associate Professor, 1998.
Turner, Alison, M.A. (Parsons School of Design), B.A. (Kentucky State University), Assistant Professor, 2008.
Vitale, Davide, M.Arch. (Harvard University), Diploma in Architecture (University of Rome), Professor, 1985.

Courses

ARCH 1003. Basic Course in the Arts: Architecture Lecture. 3 Hours.
A general introduction to architecture, exploring the designed environment, including cities and buildings and their histories, technologies and users, in a holistic manner. May not be presented towards satisfaction of major requirements in either the B.Arch or B.A. in architectural studies degrees. (Typically offered: Fall and Spring)

ARCH 1003H. Honors Basic Course in the Arts: Architecture Lecture. 3 Hours.
A general introduction to architecture, exploring the designed environment, including cities and buildings and their histories, technologies, and users, in a holistic manner. May not be presented towards satisfaction of major requirements in either the B.Arch or B.A. in architectural studies degrees. Prerequisite: Honors candidacy. (Typically offered: Fall)
This course is equivalent to ARCH 1003.

ARCH 1013. Diversity and Design. 3 Hours.
Explores the reciprocal relationship between diversity and design in America, investigating how race, gender, religion, ability, age, class, and location affect and are affected by the design of media, products, architecture, and cities/regions. Positive and negative effects of diversity and design are discussed. (Typically offered: Summer)

ARCH 1013H. Honors Diversity and Design. 3 Hours.
Explores the reciprocal relationship between diversity and design in America, investigating how race, gender, religion, ability, age, class, and location affect and are affected by the design of media, products, architecture, and cities/regions. Positive and negative effects of diversity and design are discussed. Prerequisite: Honors candidacy. (Typically offered: Summer)
This course is equivalent to ARCH 1013.

ARCH 1015. Fundamental Design Skills. 5 Hours.
Fundamental design skills; development of visual and verbal communication skills including observation skills, design technologies, analysis and representation in both 2-dimensions and 3-dimensions through analog and digital tools; creative and critical thinking skills. (Typically offered: Fall and Spring)

ARCH 1023. Fundamental Design Methodology. 5 Hours.
Fundamental design skills; use of precedents for understanding principles of design and natural and formal ordering systems; design development using both iterative and alternative methods of exploration in both 2-dimensions and 3-dimensions using analog and digital tools; continued development of visual and verbal communication skills. Prerequisite: ARCH 1015. (Typically offered: Fall and Summer)

ARCH 1212. Design Thinking I: Foundations in Technology. 2 Hours.
This course will raise pertinent questions about the role of architectural technology in design through studying the important theories about technology from Vitruvius to contemporary practice and understanding how they have been manifested in built form. (Typically offered: Fall and Summer)

ARCH 1222. Design Thinking II: Foundations in History. 2 Hours.
Explores the role of architectural history in design thinking, introducing divergent canons and traditions in a global context and emphasizing understanding of the relationships among buildings, spaces and places and the social, political and technological circumstances in which the work was theorized, produced, and lived. Prerequisite: ARCH 1212. (Typically offered: Spring and Summer)
ARCH 1212. Undergraduate Research Assistant. 0 Hours. 
Undergraduate research. (Typically offered: Fall, Spring and Summer)

ARCH 2016. Architectural Design III. 6 Hours. 
Introduction of formal principles and strategies used in space making, focusing on the development of plans and sections. Precedents and the understanding of them through analysis and syntheses are used as a means of examining the past and the present while providing a framework from which personal design sensibilities can evolve. Corequisite: ARCH 2113 and ARCH 2132 and ARCH 2233. Prerequisite: ARCH 1025 and ARCH 1222. (Typically offered: Fall)

ARCH 2026. Architectural Design IV. 6 Hours. 
An elaboration of space-making, addressing three-dimensional aspects of form-making, including the influence of structural systems, articulation of the vertical section, and exterior expression; the role of site as a generator of form; and the overarching importance of technics, including the materiality of space, structure, and light. Corequisite: ARCH 2123 and ARCH 2243. Prerequisite: ARCH 2016 and ARCH 2113 and ARCH 2132 and ARCH 2233. (Typically offered: Spring)

ARCH 2113. Architectural Structures I. 3 Hours. 
Introduction to statics and strength of materials. Building loads are examined as to their effect on the elements of architectural projects. Simple post and beam structures are the focus of this course. Bending, axial, and shear stress are examined in beams and columns. Materials studied include wood, steel, and concrete. Corequisite: ARCH 2016 and ARCH 2132. Prerequisite: ARCH 1212. (Typically offered: Fall)

ARCH 2113H. Honors Architectural Structures I. 3 Hours. 
Introduction to statics and strength of materials. Building loads are examined as to their effect on the elements of architectural projects. Simple post and beam structures are the focus of this course. Bending, axial, and shear stress are examined in beams and columns. Materials studied include wood, steel, and concrete. Corequisite: ARCH 2016 and ARCH 2132. Prerequisite: ARCH 1212. (Typically offered: Fall) 
This course is equivalent to ARCH 2113.

ARCH 2123. Architectural Structures II. 3 Hours. 
Introduction to the basic theories of structures, structural behavior, and the design of simple structural systems capable of resisting gravity and lateral forces. Provides a basic understanding of structural behavior, organization of framing systems and location of lateral force resisting elements for building structures and other technical systems. Corequisite: ARCH 2026. Prerequisite: ARCH 2113 and ARCH 2132. (Typically offered: Spring)

ARCH 2123H. Honors Architectural Structures II. 3 Hours. 
Introduction to the basic theories of structures, structural behavior, and the design of simple structural systems capable of resisting gravity and lateral forces. Provides a basic understanding of structural behavior, organization of framing systems and location of lateral force resisting elements for building structures and other technical systems. Corequisite: ARCH 2026. Prerequisite: ARCH 2113, ARCH 2132 and honors candidacy. (Typically offered: Spring) 
This course is equivalent to ARCH 2123.

ARCH 2132. Environmental Technology I. 2 Hours. 
Introduces theories and concepts of the building thermal, luminous and sonic environments with focus on solar geometry-shading, climate-thermal stresses, natural ventilation, daylight, sound isolation and noise control. The application of these systems to support the design of an environmentally responsive building and its enclosure is addressed. Corequisite: ARCH 2016 and ARCH 2113. Prerequisite: ARCH 1212. (Typically offered: Fall)

ARCH 2132H. Honors Environmental Technology I. 2 Hours. 
Introduces theories and concepts of the building thermal, luminous and sonic environments with focus on solar geometry-shading, climate-thermal stresses, natural ventilation, daylight, sound isolation and noise control. The application of these systems to support the design of an environmentally responsive building and its enclosure is addressed. Corequisite: ARCH 2016 and ARCH 2113. Prerequisite: ARCH 1212. (Typically offered: Fall) 
This course is equivalent to ARCH 2132.

ARCH 2233. History of Architecture I. 3 Hours. 
Critical study and analysis of world architecture from ancient times through the Middle Ages, comprising the ancient Americas, Asia, Mesopotamia, and Egypt; Classical, Byzantine, and Islamic architecture and vernacular design; and the early Christian, Romanesque, and Gothic periods. (Typically offered: Fall)

ARCH 2233H. Honors History of Architecture I. 3 Hours. 
Critical study and analysis of world architecture from ancient times through the Middle Ages, comprising the ancient Americas, Asia, Mesopotamia, and Egypt; Classical, Byzantine, and Islamic architecture and vernacular design; and the early Christian, Romanesque, and Gothic periods. Prerequisite: Honors candidacy. (Typically offered: Fall) 
This course is equivalent to ARCH 2233.

ARCH 2243. History of Architecture II. 3 Hours. 
Critical study and analysis of world architecture from the fifteenth to the mid-nineteenth centuries. Encompasses early modern Europe (Renaissance, Baroque, and Neoclassical) as well as two or more of the following: colonial New Spain, early modern Japan, and/or early modern Islamic empires in Africa, the Middle East, and Asia. Vernacular American building is surveyed as well as architecture in the nineteenth-century, including Beaux-Arts design and the introduction of industrial materials. Prerequisite for architecture majors only: ARCH 2233. (Typically offered: Spring)

ARCH 2243H. Honors History of Architecture II. 3 Hours. 
Critical study and analysis of world architecture from the fifteenth to the mid-nineteenth centuries. Encompasses early modern Europe (Renaissance, Baroque, and Neoclassical) as well as two or more of the following: colonial New Spain, early modern Japan, and/or early modern Islamic empires in Africa, the Middle East, and Asia. Vernacular American building is surveyed as well as architecture in the nineteenth-century, including Beaux-Arts design and the introduction of industrial materials. Prerequisite: Architecture majors only. Corequisite: ARCH 2233 and honors candidacy. (Typically offered: Spring) 
This course is equivalent to ARCH 2243.

ARCH 2600. Undergraduate Research Assistant. 0 Hours. 
Undergraduate research. (Typically offered: Fall, Spring and Summer)

ARCH 2993. Art and Culture in Italy. 3 Hours. 
The evolution of culture and aesthetics and their immediate relationship with the creation of Italy's masterpieces in art and architecture. Includes site visits and lectures. Offered in the Rome study abroad semester. (Typically offered: Fall and Spring)

ARCH 3016. Architectural Design V. 6 Hours. 
Emphasis on issues of design process, exploration of internal and external determinants of form and the integration of appropriate technologies in design solutions. Corequisite: ARCH 4433. Prerequisite: ARCH 2026 and ARCH 2123 and ARCH 2243. (Typically offered: Fall)

ARCH 3026. Architectural Design VI. 6 Hours. 
Studio-based analysis and design of structural and enclosure systems for buildings with particular emphasis on systems interface and application within the context of design exercises. Investigations of the appropriate use of materials and assemblies for varied programmatic and environmental criteria. Twelve hours of studio each week. Corequisite: ARCH 4523. Prerequisite: ARCH 3016 and ARCH 3143. (Typically offered: Spring)
ARCH 303V. Special Projects. 1-6 Hour.
Individual or group investigation in research, visual communication, history, or design concerning special interests of student or faculty. (Typically offered: Irregular) May be repeated for degree credit.

ARCH 303VH. Honors Special Projects. 1-6 Hour.
Individual or group investigation in research, visual communication, history, or design concerning special interests of student or faculty. Prerequisite: Honors candidacy. (Typically offered: Irregular) May be repeated for degree credit. This course is equivalent to ARCH 303V.

ARCH 3143. Building Materials and Assemblies. 3 Hours.
Introduction and comprehensive survey of primary building materials and methods of assembly: their history, properties, use and configuration - both traditional and contemporary, in the service of building construction; their impact on the form, expression and performance of building structures and envelopes. Prerequisite: ARCH 2132, ARCH 2113 and ARCH 2123. (Typically offered: Fall)

ARCH 3253. Environmental Technology II. 3 Hours.
Covers theoretical foundations and applications of building environmental systems: HVAC with duct layout and controls, indoor air quality, electric lighting, power, acoustics, fire safety and egress, and water and waste. The important role of such systems in the design of buildings is examined through a series of small projects assignments. Prerequisite: ARCH 3016 and ARCH 3143. (Typically offered: Spring)

ARCH 3253H. Honors Environmental Technology II. 3 Hours.
Covers theoretical foundations and applications of building environmental systems: HVAC with duct layout and controls, indoor air quality, electric lighting, power, acoustics, fire safety and egress, and water and waste. The important role of such systems in the design of buildings is examined through a series of small projects assignments. Prerequisite: ARCH 2016 and ARCH 3143. (Typically offered: Spring) This course is equivalent to ARCH 3253.

ARCH 3600. Undergraduate Research Assistant. 0 Hours.
Undergraduate research. (Typically offered: Fall, Spring and Summer)

ARCH 3743. Furniture Design. 3 Hours.
Design concepts and techniques to acquaint the student with the design of furniture; analysis of function, development of design and construction of small pieces of furniture. (Typically offered: Irregular)

ARCH 4016. Comprehensive Studio. 6 Hours.
Introduces a complex social and physical urban condition through a process of formal analysis and design executed in a designated country augmented by an intense graphic investigation of urban form encountered through related field trips to the distinct cultural and geographic regions. Prerequisite: ARCH 3026 or ARCH 4016 or ARCH 4026. (Typically offered: Summer)

ARCH 4152. Building Systems Integration. 2 Hours.
Promotes the synthesis of building technologies, systems selection and integration in the resolution of a building design. Specifically, the student demonstrates knowledge in the ability to generate digital and analog graphic resolutions highlighting the design response of material, structural and environmental systems in a building. Corequisite: ARCH 4016 or ARCH 4026. Prerequisite: ARCH 2113 and ARCH 2123 and ARCH 2132 and ARCH 3143 and ARCH 3253. (Typically offered: Fall and Spring)

ARCH 4152H. Honors Building Systems Integration. 2 Hours.
Promotes the synthesis of building technologies, systems selection and integration in the resolution of a building design. Specifically, the student demonstrates knowledge in the ability to generate digital and analog graphic resolutions highlighting the design response of material, structural and environmental systems in a building. Corequisite: ARCH 4016 or ARCH 4026. Prerequisite: ARCH 2113 and ARCH 2123 and ARCH 2132 and ARCH 3143 and ARCH 3253. (Typically offered: Fall and Spring) This course is equivalent to ARCH 4152.

ARCH 4433. History of Architecture III. 3 Hours.
Critical study and analysis of the history and theories of modern architecture from the mid-nineteenth century to the present. Prerequisite: ARCH 2233 and ARCH 2243 or IDES 2863. (Typically offered: Fall)

ARCH 4433H. Honors History of Architecture III. 3 Hours.
Critical study and analysis of the history and theories of modern architecture from the mid-nineteenth century to the present. Prerequisite: ARCH 2233, ARCH 2243 and honors candidacy. (Typically offered: Fall) This course is equivalent to ARCH 4433.

ARCH 4523. Architectural Theory. 3 Hours.
Introduction to the lexicon of architecture and the ideas and ideologies that provide the conceptual and critical infrastructure for the discipline. Reading and discussion of representative theory texts. Emphasis on twentieth century modernism and postmodernism, including contemporary speculations on possible and emerging forms of practice after theory. Prerequisite: ARCH 2233, ARCH 2243, and ARCH 4433. (Typically offered: Spring)

ARCH 4523H. Honors Architectural Theory. 3 Hours.
Introduction to architectural theories and their relationship to modern historiography. Case studies are employed for the critical evaluation of significant texts and the discernment of concepts embedded in textual structures. Reading theory through established historical categories establishes critical insight to the original deployment, negation and resurfacing of architectural theories. Prerequisite: ARCH 2233, ARCH 2243, and ARCH 4433. (Typically offered: Spring) This course is equivalent to ARCH 4523.

ARCH 4553. Modern Architecture in Mexico. 3 Hours.
Overview of the emergence, growth and trends that define the ongoing evolution of modern architecture in Mexico from the first decades of the 20th century to contemporary practice. Offered in the Mexico study abroad semester. (Typically offered: Summer)

ARCH 4600. Undergraduate Research Assistant. 0 Hours.
Undergraduate research. (Typically offered: Fall, Spring and Summer)

ARCH 4653. Architecture of the City. 3 Hours.
Analysis of Rome's urban form and historical and theoretical information in support of the students' experience. Includes site visits and lectures. Offered in the Rome study abroad semester. (Typically offered: Fall and Spring)
ARCH 4673. Modern and Contemporary Rome. 3 Hours.
Explores different local conditions that determine main architectural changes that have taken place in Rome during the last century of its urban history. Important works, leading figures and major concepts in contemporary European architecture will be described to introduce examples of modern and contemporary architecture in Rome. (Typically offered: Fall and Spring)

ARCH 4723. Architectural Research Methods. 3 Hours.
Investigation into the practical, theoretical, and methodological strategies necessary for embarking upon architectural inquiry and discourse at a sophisticated level, for instance, in the form of a year-long thesis or independent project. Practical issues of method, such as research skills, literature review, and argument analysis are examined. The classic range of tools for interpreting architecture are surveyed from single-cause explanations (e.g., formalism) to more recent multi-causal theories (e.g., Semiotics, Deconstruction, Post-colonial theory, etc.) for architectural design. Prerequisite: ARCH 2233, ARCH 2243, and ARCH 4433. (Typically offered: Fall)

ARCH 4843. Medieval Architecture. 3 Hours.
This course traces the history of architecture in Western Europe from c. 300 - 1400. Sites studied include: the early Christian basilicas in Rome, the towered churches of Carolingian emperors, synagogues and mosques of Al-Andalus (Spain), Romanesque monasteries, and Gothic cathedrals. Prerequisite: ARCH 4433. (Typically offered: Irregular)
This course is equivalent to ARHS 4743.

ARCH 4843H. Honors Medieval Architecture. 3 Hours.
This course traces the history of architecture in Western Europe from c. 300 - 1400. Sites studied include: the early Christian basilicas in Rome, the towered churches of Carolingian emperors, synagogues and mosques of Al-Andalus (Spain), Romanesque monasteries, and Gothic cathedrals. Prerequisite: ARCH 4433. (Typically offered: Irregular)
This course is equivalent to ARHS 4743.

ARCH 4853. Renaissance and Baroque Architecture. 3 Hours.
Study of Renaissance and Baroque architecture in Europe and the New World from 1400 to 1700. With reference to an array of texts, drawings, and the edifices themselves, this course charts the evolution of a commanding Western architectural tradition. Renaissance and Baroque -- with close attention to the social, humanistic, and religious contexts that produced it. Prerequisite: ARCH 4433. (Typically offered: Irregular)
This course is equivalent to ARHS 4753.

ARCH 4853H. Honors Renaissance and Baroque Architecture. 3 Hours.
Study of Renaissance and Baroque architecture in Europe and the New World from 1400 to 1700. With reference to an array of texts, drawings, and the edifices themselves, this course charts the evolution of a commanding Western architectural tradition. Renaissance and Baroque -- with close attention to the social, humanistic, and religious contexts that produced it. Prerequisite: ARCH 4433. (Typically offered: Irregular)
This course is equivalent to ARHS 4753.

ARCH 4863. Saint Peter’s and the Vatican. 3 Hours.
Examines art and the architectural history of St. Peter's Basilica in Rome from antiquity to present. Emphasis on the Renaissance/Baroque church and its early Christian predecessor. Students consider the impact of devotional practices and papal politics on the church, the Vatican Palace, and its renown artworks including the Sistine ceiling. Prerequisite: ARCH 2233 or ARCH 2233H and ARCH 2243 or ARCH 2243H and ARCH 4433 or ARCH 4433H. (Typically offered: Irregular)

ARCH 4863H. Honors St. Peter’s and the Vatican. 3 Hours.
Examines art and architectural history of St. Peter's Basilica in Rome from antiquity to present. Emphasis on the Renaissance/Baroque church and its early Christian predecessor. Students consider the impact of devotional practices and papal politics on the church, the Vatican Palace, and its renown artworks including the Sistine ceiling. Prerequisite: ARCH 2233 or ARCH 2233H, and ARCH 2243 or ARCH 2243H and ARCH 4433 or ARCH 4433H. (Typically offered: Irregular)
This course is equivalent to ARCH 4863.

ARCH 4933. Introduction to Historic Preservation. 3 Hours.
Introduces theoretical, methodological and practical issues of architectural preservation in Europe and, more specifically, in Italy. Addresses history and theory of restoration, basic principles of architectural preservation and methodology in the study and praxis of preservation applied to architecture and the issues posed by the preservation of modern architecture. (Typically offered: Fall and Spring)

ARCH 4943. Perspectives on Historic Preservation. 3 Hours.
Introduction of history, theory, and praxis of preservation design, emphasizing development and implementation of preservation projects in the practices of architecture, landscape architecture and interior design. Central themes include: preservation as a form of design; principles, rationales, and ideologies associated with preservation practice; and sustainable strategies for preservation design. Prerequisite: ARCH 2233 and ARCH 2243 or LARC 3413 and LARC 4413 or IDES 2883. (Typically offered: Fall)
This course is cross-listed with LARC 4943, IDES 4943.

ARCH 4943H. Honors Perspectives on Historic Preservation. 3 Hours.
Introduction of history, theory, and praxis of preservation design, emphasizing development and implementation of preservation projects in the practices of architecture, landscape architecture and interior design. Central themes include: preservation as a form of design; principles, rationales, and ideologies associated with preservation practice; and sustainable strategies for preservation design. Prerequisite: ARCH 2233 and ARCH 2243 or LARC 3413 and LARC 4413 or IDES 2883. (Typically offered: Fall)
This course is cross-listed with LARC 4943, IDES 4943, ARCH 4943.

ARCH 5016. Option Studio I. 6 Hours.
Project development dependent upon the synthesis of knowledge and application of critical thinking addressing architectural issues at multiple scales. Prerequisite: ARCH 4016, or ARCH 4026, or ARCH 4116, or ARCH 4126. (Typically offered: Fall) May be repeated for degree credit.

ARCH 5016H. Honors Thesis Project I. 6 Hours.
Degree project development dependent upon the synthesis of knowledge and application of critical thinking addressing architectural issues at multiple scales. Prerequisite: Honors candidacy. (Typically offered: Fall) This course is equivalent to ARCH 5016.

ARCH 5026. Option Studio II. 6 Hours.
Project resolution including demonstrated skill in generating design ideas supported by clear understanding of issues resulting in comprehensive development and presentation of architectural issues at multiple scales. (Typically offered: Spring) May be repeated for degree credit.

ARCH 5026H. Honors Thesis Project II. 6 Hours.
Degree project resolution including demonstrated skill in generating design ideas supported by clear understanding of issues resulting in comprehensive development and presentation of architectural issues at multiple scales. Prerequisite: Honors candidacy. (Typically offered: Spring) This course is equivalent to ARCH 5026.
ARCH 5314. Architectural Professional Practice. 4 Hours.
Study of role and responsibility of the architect, owner, and contractor relationships; professional ethics; organization of the architect's office; contracts and other documents; risk management strategies; and the preparation of the technical specifications and bidding documents of the Project Manual. Prerequisite: ARCH 4026 or ARCH 4116 or ARCH 4126. (Typically offered: Fall)

ARCH 5493. History of Urban Form. 3 Hours.
The study of pre-industrial urban and architectural design strategies in cities from the Classical through the Baroque eras and their rediscovery in the late 20th century, providing the student with a designer's understanding of a broad range of exemplary urban spaces and the buildings that shape them. Prerequisite: ARCH 2233 and ARCH 2243 and ARCH 4433. (Typically offered: Irregular)

ARCH 5493H. Honors History of Urban Form. 3 Hours.
The study of pre-industrial urban and architectural design strategies in cities from the Classical through the Baroque eras and their rediscovery in the late 20th century, providing the student with a designer's understanding of a broad range of exemplary urban spaces and the buildings that shape them. Prerequisite: ARCH 2233 and ARCH 2243 and ARCH 4433. (Typically offered: Irregular)
This course is equivalent to ARCH 5493.

ARCH 5943. Preservation Design Technology. 3 Hours.
This course prepares students to work with historic structures by providing an introduction to the history and principles of historic and traditional construction systems, including: concepts and techniques for building conservation, historic materials and technologies, identification of treatments, recordation and research, material properties and behavior, and building forensics. Prerequisite: ARCH 4943 or instructor consent. (Typically offered: Irregular)

ARCH 5953. Preservation Practice Field Trip. 3 Hours.
Intensive field study of a domestic or foreign site of significant or precedent-setting preservation activity, through a field trip and a course of pre-travel lectures. (Intersessions) Prerequisite: ARCH 4943 or instructor consent. (Typically offered: Fall, Spring and Summer) May be repeated for up to 6 hours of degree credit.