Architectural Studies (ARCH)

Faculty
Marlon Blackwell, Distinguished Professor
David Buege, Professor
Emilio Del Gesso, Assistant Professor
Lynn Fitzpatrick, Assistant Professor
E. S. Goodstein-Murphree, Professor
Greg Herman, Associate Professor
Frank R. Jacobus, Associate Professor
Lynn Fitzpatrick, Assistant Professor
Ethel S. Goodstein-Murphree, Professor
Greg Herman, Associate Professor
Marc A. Manack, Assistant Professor
Tahar Messadi, Associate Professor
Winifred E. Newman, Professor
Chuck Rotolo, Assistant Professor
Russell D. Rudzinski, Assistant Professor
Kim Sexton, Associate Professor
Graham F. Shannon, Professor
Laura Terry, Associate Professor
Alison Turner, Assistant Professor
Davide Vitale, Professor

Winifred E. Newman
Department Head
120 Vol Walker Hall
479-575-4705

Bachelor of Science in Architectural Studies
The Bachelor of Science in Architectural Studies incorporates course work from the school with liberal studies for students with interests that fall outside the parameters of the accredited professional degree program. The architectural studies program provides opportunities for students who wish to prepare for graduate study in an accredited architecture program or in an allied discipline, such as architectural history, historic preservation, urban planning, or construction management, as well as serving students who seek opportunities in related fields that may not require the five-year accredited degree.

Requirements for a Bachelor of Science Degree in Architectural Studies:
1. Completion of the following 31-hour architectural studies program:
   Architectural Design
   - ARCH 1015 Fundamental Design Skills (Su, Fa) 5
   - ARCH 1025 Fundamental Design Methodology (Sp, Su) 5
   Architectural Technology
   - ARCH 1212 Design Thinking I: Foundations in Technology (Su, Fa) 2
   - ARCH 2132 Environmental Technology I (Fa) 2
   History and Theory of Architecture
   - ARCH 1013 Diversity and Design (Su) 3
   - ARCH 1222 Design Thinking II: Foundations in History (Sp, Su) 2
   - ARCH 2233 History of Architecture I (Fa) 3
   - ARCH 2243 History of Architecture II (Sp) 3
   - ARCH 4433 History of Architecture III (Fa) 3
   - ARCH 4523 Architectural Theory (Sp) 3
   (Students interested in Landscape Architecture may substitute LARC 3413 for ARCH 2233 or ARCH 2243.)
   Total Hours 31

2. Completion of the following 35-hour general education program:
   English Composition
   - ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Sp, Su, Fa) 3
   - ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) (Sp, Su, Fa) 3
   American History or Government
   Select one of the following: 3
   - HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Sp, Su, Fa)
   - HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) (Sp, Su, Fa)
   Mathematics
   Select one of the following: 3
   - MATH 1213 Plane Trigonometry (ACTS Equivalency = MATH 1203) (Sp, Su, Fa)
   - MATH 2033 Mathematical Thought (Sp, Su, Fa)
   - MATH 2043 Survey of Calculus (ACTS Equivalency = MATH 2203) (Sp, Su, Fa)
   - MATH 2053 Finite Mathematics (Sp, Su, Fa)
   Laboratory Science
   - PHYS 1044 Physics for Architects I (Fa) 4
   - PHYS 1054 Physics for Architects II (Sp) 4
   Fine Arts/Humanities
   One course must be elected from the fine arts core; one course from the humanities core. 6
   Social Science
   At least three hours should be taken in anthropology, economics, psychology, or sociology; and with not more than two courses taken from any one department to fulfill this requirement. (See University Core Requirements)
   Total Hours 35

3. Completion of 45 hours of electives as follows:
   Professional Concentration Electives 24
   Concentration tracks can include: M.Arch. preparation; historic preservation; environmental technologies and sustainability; urban and regional planning; a recognized minor in an allied discipline; and other similar programs of study, subject to approval; including at least nine hours of upper-level courses in FJSOA.
   Upper Division Electives outside of FJSOA 9
   Interdisciplinary Core 9
   Nine hours to include at least one course in IDES and one course in LARC
   Total Hours 42
4. Free Electives

5. A minimum of 120 hours with a 2.00 cumulative grade-point average at this institution both in all work attempted and in course work completed in the Fay Jones School of Architecture.

6. Presentation of at least 40 semester hours in courses numbered 3000 or above or courses in the Fay Jones School of Architecture (or allied discipline) numbered 2000 with specific course prerequisites.

7. University Perspectives (UNIV 1011) does not count towards degree credit.

Architectural Studies degree candidates may pursue an academic minor. The minor must be in a field other than the major area, and students must notify the department of their intention to minor. An academic minor ordinarily consists of 15-18 hours. Although students in architectural studies may choose from any recognized minor offered by the university, they are encouraged to consider the following fields:

- African-American Studies
- Anthropology
- Art History
- Business Administration
- Classical Studies
- Communication
- Computer Sciences
- Economics
- English
- Environmental Studies
- European Studies
- Gender Studies
- Geography
- History
- History of Architecture and Design
- Historic Preservation
- Interior Design
- Latin-American Studies
- Philosophy
- Planning
- Planting Design
- Psychology
- Political Science
- Sociology
- Sustainability
- Theatre

Although foreign study is not required of candidates for the four-year degree, students in the architectural studies curriculum are encouraged to participate in the school's off-campus study programs in Rome and Latin/ Central America.

To take maximum advantage of the opportunities the four-year degree offers for pre-professional development (cultivation of specialization in and related to the field, and/or preparation for graduate study) each candidate for the Architectural Studies degree will work with a faculty adviser to develop a program of study emphasizing a student's special interests.

A sample curriculum for the Bachelor of Science in Architectural Studies degree can also be obtained from the school's advising center.

Architectural Studies B.S.
Eight-Semester Degree Program

Students wishing to follow the eight-semester degree plan should see the Eight-Semester Degree Policy (http://catalog.uark.edu/undergraduatecatalog/academicregulations/eightsemesterdegreecompletionpolicy) for university requirements of the program. During the first year, students who have been admitted to the fall-spring design studio and students who have been to the summer-summer design studio follow different schedules, both of which are listed below, with the fall-spring studio first and then the summer-summer studio. The second, third and fourth years are identical for both scenarios.

**Fall-Spring Design Studio**

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCH 1015 Fundamental Design Skills (Su, Fa)</td>
<td>5</td>
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</tr>
<tr>
<td>ARCH 1212 Design Thinking I: Foundations in Technology (Su, Fa)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Sp, Su, Fa)</td>
<td>3</td>
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<tr>
<td>PHYS 1044 Physics for Architects I (Fa)</td>
<td>4</td>
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</tr>
<tr>
<td>UNIV 1001 University Perspectives (Sp, Su, Fa)</td>
<td>0</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>ARCH 1025 Fundamental Design Methodology (Sp, Su)</td>
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<tr>
<td>ARCH 1222 Design Thinking II: Foundations in History (Sp, Su)</td>
<td>2</td>
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<tr>
<td>ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) (Sp, Su, Fa)</td>
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</table>

Select one of the following:

- MATH 1213 Plane Trigonometry (ACTS Equivalency = MATH 1203) (Sp, Su, Fa)
- MATH 2033 Mathematical Thought (Sp, Su, Fa)
- MATH 2043 Survey of Calculus (ACTS Equivalency = MATH 2203) (Sp, Su, Fa)
- MATH 2053 Finite Mathematics (Sp, Su, Fa)

<table>
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<tr>
<th>First Year</th>
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<th>Spring</th>
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<tbody>
<tr>
<td>PHYS 1054 Physics for Architects II (Sp)</td>
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Year Total: 14 17

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Fall</th>
<th>Spring</th>
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Prior to Second Year
Prior to Second Year PHYS 1044, PHYS 1054 (or an approved alternate laboratory science in the University Core) and MATH 1213, MATH 2033, MATH 2043 or MATH 2053 must be completed before students can begin second-year courses in Architecture. Transfers students and change-of-majors seeking exceptions to the eight-semester degree plan will be reviewed on an individual basis.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>ARCH 2132 Environmental Technology I (Fa)</td>
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<tr>
<td>ARCH 1013 Diversity and Design (Su)</td>
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<tr>
<td>Social Science Core</td>
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<tr>
<td>ARCH 2233 History of Architecture I (Fa)</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Sp, Su, Fa)</td>
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<tr>
<td>HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) (Sp, Su, Fa)</td>
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<tr>
<td>ARCH 2243 History of Architecture II (Sp)</td>
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<td>Social Science Core</td>
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<tr>
<td>Interdisciplinary Core Requirement</td>
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<td>Fine Arts or Humanities Core</td>
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<th>Course</th>
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<td>Interdisciplinary Core Requirement</td>
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<td>Upper-level Arts and Sciences 3000-plus Course Requirement</td>
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<td>Fine Arts or Humanities Core</td>
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<td>ARCH 4523 Architectural Theory (Sp)</td>
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<td>Concentration or Minor Elective</td>
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<td>Upper-level Arts and Sciences 3000-plus Course Requirement</td>
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<td>Free Elective</td>
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<td>Upper-level Arts and Sciences Elective</td>
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<td>Concentration or Minor Electives</td>
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<td>Year Total:</td>
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Total Units in Sequence: 120

**Summer-Summer Design Studio**

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<th>Course</th>
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<tr>
<td>MATH 1213 Plane Trigonometry</td>
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<tr>
<td>(ACTS Equivalency = MATH 1203)</td>
<td>(Sp, Su, Fa)</td>
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<td>MATH 2033 Mathematical Thought</td>
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<tr>
<td>(Sp, Su, Fa)</td>
<td>(Sp, Su, Fa)</td>
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<td>MATH 2043 Survey of Calculus</td>
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<td>(ACTS Equivalency = MATH 2203)</td>
<td>(Sp, Su, Fa)</td>
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<td>MATH 2053 Finite Mathematics (Sp, Su, Fa)</td>
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<td>ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013)</td>
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<td>(Sp, Su, Fa)</td>
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<tr>
<td>HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Sp, Su, Fa)</td>
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<td>HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) (Sp, Su, Fa)</td>
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<td>PHYS 1044 Physics for Architects I (Fa)</td>
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<td>Fine Arts or Humanities Core</td>
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<td>Year Total:</td>
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<tr>
<th>Course</th>
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<th>Units</th>
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<td>Social Science Core</td>
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<tr>
<td>PHYS 1054 Physics for Architects II (Sp)</td>
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<td>(strongly recommended)</td>
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<td>Fine Arts or Humanities Core</td>
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These students may continue into ARCH 1015 Architectural Design I in the summer if they meet the following criteria: “C” or better in PHYS 1044 Physics for Architects I or an approved equivalent; Maintain a 2.0 GPA. Students who do not meet these criteria will be delayed until they satisfy the admissions criteria for the Department of Architecture. Students will be reviewed at the end of the first summer session and will not be allowed to continue in the program if they do not meet the following criteria: “C” or better in ARCH 1015 Architectural Design I; “C” or better in ARCH 1212 Design Thinking I: Foundations in Technology; Maintain a 2.0 GPA.
ARCH 1015 Fundamental Design Skills (Su, Fa) 5
ARCH 1212 Design Thinking I: Foundations in Technology (Su, Fa) 2
ARCH 1025 Fundamental Design Methodology (Sp, Su) 5
ARCH 1222 Design Thinking II: Foundations in History (Sp, Su) 2
Year Total: 16 13 14

Second Year

<table>
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<tr>
<th>Units</th>
<th>Fall</th>
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<th>Summer</th>
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<td>Prior to Second Year</td>
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<tr>
<td>PHYS 1044, PHYS 1054 (or an approved alternate laboratory science in the University Core) and MATH 1213, MATH 2033, MATH 2043 or MATH 2053 must be completed before students can begin second-year courses in Architecture. Transfers and change-of-majors seeking exceptions to the eight-semester degree plan will be reviewed on an individual basis.</td>
<td></td>
<td></td>
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<tr>
<td>ARCH 2132 Environmental Technology I (Fa)</td>
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<td>ARCH 1013 Diversity and Design (Su)</td>
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<td>Social Science Core</td>
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<tr>
<td>ARCH 2233 History of Architecture I (Fa)</td>
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<td>HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) (Sp, Su, Fa)</td>
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<td>HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123) (Sp, Su, Fa)</td>
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<tr>
<td>ARCH 2243 History of Architecture II (Sp)</td>
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<td>Social Science Core</td>
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<td>Interdisciplinary Core Requirement</td>
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<td>Free Elective</td>
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<td>Fine Arts or Humanities Core (if still needed)</td>
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Third Year

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<tr>
<th>Units</th>
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<th>Summer</th>
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<tbody>
<tr>
<td>ARCH 4433 History of Architecture III (Fa)</td>
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Social Science Core (if still needed) 0-3
Interdisciplinary Core Requirement 3
Concentration or Minor Elective 3
Upper-level Arts and Sciences 3000-plus Course Requirement 3
Fine Arts or Humanities Core 3
ARCH 4523 Architectural Theory (Sp) 3
Concentration or Minor Elective 3
Upper-level Arts and Sciences 3000-plus Course Requirement 3
Year Total: 12 12

Fourth Year

<table>
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<tr>
<th>Units</th>
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<th>Summer</th>
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<td>Free Electives</td>
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<td>Free Elective (if still needed)</td>
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<tr>
<td>Upper-level Arts and Sciences Elective</td>
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<td>Concentration or Minor Electives</td>
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<tr>
<td>Year Total:</td>
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Total Units in Sequence: 120

Note: These students may continue into ARCH 1015 Architectural Design I in the summer if they meet the following criteria: "C" or better in PHYS 1044 Physics for Architects I or an approved equivalent; Maintain a 2.0 GPA. Students who do not meet these criteria will be delayed until they satisfy the admissions criteria for the Department of Architecture. Students will be reviewed at the end of the first summer session and will not be allowed to continue in the program if they do not meet the following criteria: "C" or better in ARCH 1015 Architectural Design I; "C" or better in ARCH 1212 Design Thinking I: Foundations in Technology; Maintain a 2.0 GPA.

Courses

ARCH 1003. Basic Course in the Arts: Architecture Lecture (Sp, Fa). 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.

ARCH 1003H. Honors Basic Course in the Arts: Architecture Lecture (Fa). 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. This course is equivalent to ARCH 1003.

ARCH 1013. Diversity and Design (Su). 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.
ARCH 1013H. Honors Diversity and Design (Su). 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. This course is equivalent to ARCH 1013.

ARCH 1015. Fundamental Design Skills (Su, Fa). 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.

ARCH 1025. Fundamental Design Methodology (Sp, Su). 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.

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.

ARCH 1222. Design Thinking II: Foundations in History (Sp, Su). 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.

ARCH 1600. Undergraduate Research Assistant (Sp, Su, Fa). 0 Hours.
Undergraduate research.

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.

ARCH 2026. Architectural Design IV (Sp). 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 technologies, 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.

ARCH 2113. Architectural Structures I (Fa). 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.

ARCH 2113H. Honors Architectural Structures I (Fa). 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. This course is equivalent to ARCH 2113.

ARCH 2123. Architectural Structures II (Sp). 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. This course is equivalent to ARCH 2124.

ARCH 2132. Environmental Technology I (Fa). 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.

ARCH 2132H. Honors Environmental Technology I (Fa). 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. This course is equivalent to ARCH 2132.

ARCH 2233. History of Architecture I (Fa). 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.

ARCH 2233H. Honors History of Architecture I (Fa). 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. This course is equivalent to ARCH 2233.

ARCH 2243. History of Architecture II (Sp). 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.
ARCH 2243H. Honors History of Architecture II (Sp). 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.
This course is equivalent to ARCH 2243.

ARCH 2600. Undergraduate Research Assistant (Sp, Su, Fa). 0 Hours.
Undergraduate research.

ARCH 2993. Art and Culture in Italy (Sp, Fa). 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.

ARCH 3016. Architectural Design V (Fa). 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 3134 and ARCH 4433. Prerequisite: ARCH 2026 and ARCH 2123 and ARCH 2243.
This course is equivalent to ARCH 301.

ARCH 3026. Architectural Design VI (Sp). 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 3134.

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

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

ARCH 3143. Building Materials and Assemblies (Sp, Fa). 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.

ARCH 3253. Environmental Technology II (Sp). 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 2113, ARCH 2123, ARCH 2132 and ARCH 3143.
This course is cross-listed with ARCH 3253H.

ARCH 3253H. Honors Environmental Technology II (Sp). 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 2113, ARCH 2123, ARCH 2132 and ARCH 3143.
This course is cross-listed with ARCH 3253.
ARCH 4433. History of Architecture III (Fa). 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 2883.

ARCH 4433H. Honors History of Architecture III (Fa). 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.

This course is equivalent to ARCH 4433.

ARCH 4483. Architecture of the Americas (Irregular). 3 Hours.
Study of the development of architecture in the Americas from the Pre-Columbian cultures to the present day. Lecture and slides 3 hours per week.

ARCH 4483H. Honors Architecture of the Americas (Irregular). 3 Hours.
Study of the development of architecture in the Americas from the Pre-Columbian cultures to the present day. Lecture and slides 3 hours per week. Prerequisite: Honors candidacy.

This course is equivalent to ARCH 4483.

ARCH 4523. Architectural Theory (Sp). 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.

ARCH 4523H. Honors Architectural Theory (Sp). 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.

This course is equivalent to ARCH 4523.

ARCH 4553. Modern Architecture in Mexico (Su). 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.

ARCH 4553H. Honors Modern Architecture in Mexico (Su). 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.

This course is equivalent to ARCH 4553.

ARCH 4600. Undergraduate Research Assistant (Sp, Su, Fa). 0 Hours.
Undergraduate research.

ARCH 4610. Architecture Cooperative Education I (Irregular). 0 Hours.
A practicum which introduces and engages the student in the practice and application of the profession. Prerequisite: completion of all third year program requirements, 2.5 minimum GPA and permission of the faculty.

ARCH 4643. Principles of Sustainable Design (Sp, Fa). 3 Hours.
In collaboration with the Green Building Council Italia. Provides a basic understanding of key aspects of sustainable design in architecture with particular reference to the experiences and methods developed in Italy and Europe.

ARCH 4653. Architecture of the City (Sp, Fa). 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.

ARCH 4673. Modern and Contemporary Rome (Sp, Fa). 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.

ARCH 4723. Architectural Research Methods (Fa). 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.

ARCH 4723H. Honors Architectural Research Methods (Fa). 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 and honors candidacy.

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. This course is cross-listed with ARHS 4743.

ARCH 4843H. Honors Medieval Architecture (Irregular). 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. This course is cross-listed with ARHS 4743, ARCH 4843.

ARCH 4853. Renaissance and Baroque Architecture (Irregular). 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. This course is cross-listed with ARHS 4753, ARCH 4853.

ARCH 4853H. Honors Renaissance and Baroque Architecture (Irregular). 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. This course is cross-listed with ARHS 4753, ARCH 4853.
ARCH 4863. Saint Peter’s and the Vatican (Irregular). 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. This course is cross-listed with ARHS 4733.

ARCH 4863H. Honors St. Peter’s and the Vatican (Irregular). 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. This course is cross-listed with ARCH 4863, ARHS 4733.

ARCH 4933. Introduction to Historic Preservation (Sp, Fa). 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.

ARCH 4943. Perspectives on Historic Preservation (Fa). 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. This course is cross-listed with LARC 4943, IDES 4943.

ARCH 4943H. Honors Perspectives on Historic Preservation (Fa). 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. This course is cross-listed with LARC 4943, IDES 4943, ARCH 4943.

ARCH 5016. Option Studio I (Sp). 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.

ARCH 5016H. Honors Thesis Project I (Sp, Fa). 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. This course is equivalent to ARCH 5016.

ARCH 5026. Option Studio II (Su). 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. Prerequisite: ARCH 5016.

ARCH 5026H. Honors Thesis Project II (Sp, Fa). 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.
This course is equivalent to ARCH 5026.

Advanced discussion, investigation, design, and analysis of structural systems, forms, and materials as determinants of architectural design. May be repeated for up to 6 hours of degree credit.

ARCH 5314. Architectural Professional Practice (Fa). 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.

ARCH 5493. History of Urban Form (Irregular). 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.

ARCH 5493H. Honors History of Urban Form (Irregular). 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. This course is equivalent to ARCH 5493.

ARCH 5933. Preservation and Restoration (Irregular). 3 Hours.
History of the preservation and restoration movement in Europe and the U.S.; its relation to the contemporary urban planning and renewal. Modern economic and administrative techniques of preservation. Participation in history surveys at regional and state levels. Prerequisite: ARCH 2233, ARCH 2243, and ARCH 4433.

ARCH 5943. Preservation Design Technology (Irregular). 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.

ARCH 5953. Preservation Practice Field Trip (Sp, Su, Fa). 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. May be repeated for up to 6 hours of degree credit.