TEST PAGE

Tips for editing the catalog
To add links to courses that appear within the text, select the course discipline and number and click on the **Insert/Edit Database Field** icon in the editing toolbar. A blue box around the course indicates it is linked to the course description: Biomechanics I (BME 2203). If the course title is ever changed, the title will automatically update wherever the course is linked.

WRC 1023

Lists

1. Item 1
2. Item 2
3. Item 3

To change the format of the linked course, double click within the blue box and then select Format in the new window: MKT 3013

If you are linking to a course that has been deleted or has not yet been added, a red box will appear around the course: MKT 2013

**Important:** You cannot make changes to course descriptions under the Courses tab. All course description updates must be made in Banner by the Registrar’s Office catalog editors and then uploaded to into CourseLeaf. Test Page

Shared Content
Tables and text with gray shading are shared content that appears in multiple places - such as the CBK or the core. When a shared page is updated, the changes will appear everywhere the content is shared, so you only have to update the CBK in one place and it will populate all CBK tables throughout the catalog. You need additional permission to edit shared content pages.

To log out of Courseleaf, just close the browser (there is no logout button)

WRC 1013 Freshman Composition I (Q)

Principles of Auditing (ACC 4013)

For training (make any changes you like)

- B.A. degree in Ar (p. 1)t
- B.F.A. degree in Art (p. 3)
- B.A. degree in Art History and Criticism (p. 4)

Bachelor of Arts Degree in Art
The Bachelor of Arts (B.A.) degree in Art is awarded upon the completion of 120 hours, of which 42 hours are Core Curriculum requirements. Thirty-nine (39) of the total semester credit hours required for the degree must be at the upper-division level.

The B.A. degree in Art recognizes the successful completion of a program of study that includes foundation study, some specialization in studio art practices, and a broad foundation in art history. The curriculum aims primarily toward breadth of experience in the context of a liberal arts education rather than professional specialization.

Students must complete all lower-division course requirements for this degree prior to enrolling in more than fifteen (15) hours of upper-division coursework.

Transfer students who wish to receive credit for upper-division studio art courses taken at another institution must present a portfolio of work to the department before the registration period. This portfolio should consist of four to six original examples or a digital portfolio of artworks on a CD/DVD completed for each upper-division course taken at another institution for which the student wishes to receive credit.

All candidates seeking this degree must fulfill the Core Curriculum requirements and the degree requirements, which are listed below.

Core Curriculum Requirements (42 semester credit hours)
Students seeking the B.A. degree in Art must fulfill University Core Curriculum requirements in the same manner as other students. The courses listed below satisfy both degree requirements and Core Curriculum requirements; however, if these courses are taken to satisfy both requirements, then students may need to take additional courses in order to meet the minimum number of semester credit hours required for this degree.

AHC 1113, AHC 1123, or AHC 1133 may be used to satisfy the core requirement in Creative Arts as well as a major requirement.

Core Curriculum Component Area Requirements (http://catalog.utsa.edu/undergraduate/bachelorsdegree/regulations/degreerequirements/corecurriculumcomponentarearequirements)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year Experience Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Communication</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Life and Physical Sciences</td>
<td>6</td>
</tr>
<tr>
<td>Language, Philosophy and Culture</td>
<td>3</td>
</tr>
<tr>
<td>Creative Arts</td>
<td>3</td>
</tr>
<tr>
<td>American History</td>
<td>6</td>
</tr>
<tr>
<td>Government-Political Science</td>
<td>6</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Component Area Option</td>
<td>3</td>
</tr>
<tr>
<td>Total Credit Hours</td>
<td>42</td>
</tr>
</tbody>
</table>

Major Requirements
ARC 1133 Construction Material and Concepts 3
ARC 1224 Design II 4
ARC 1513 Great Buildings and Cities of the World 3

A. Required lower-division art and art history and criticism foundation courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 3223</td>
<td>Drawing: Figure</td>
<td>6</td>
</tr>
<tr>
<td>ART 3113</td>
<td>and Painting II</td>
<td></td>
</tr>
<tr>
<td>ART 5553</td>
<td>Sculpture (must be repeated for 6 hours)</td>
<td>6</td>
</tr>
<tr>
<td>PHY 1943</td>
<td>Physics for Scientists and Engineers I</td>
<td></td>
</tr>
<tr>
<td>or PHY 1951</td>
<td>Physics for Scientists and Engineers I Laboratory</td>
<td></td>
</tr>
<tr>
<td>ART 5953</td>
<td>New Media</td>
<td>3</td>
</tr>
<tr>
<td>select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENT 6971</td>
<td>Special Problems in Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>WRC 1013</td>
<td>Freshman Composition I (Q)</td>
<td></td>
</tr>
</tbody>
</table>
### Test Page

**Total Credit Hours**: 91-93

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AHC 1123</td>
<td>Survey of Art and Architecture in Europe and the New World from 1350 to 1750</td>
</tr>
<tr>
<td>AHC 1133</td>
<td>Survey of Modern Art</td>
</tr>
<tr>
<td>ART 1003</td>
<td>Two Dimensional Foundations</td>
</tr>
<tr>
<td>ART 1013</td>
<td>Three Dimensional Foundations</td>
</tr>
<tr>
<td>ART 1023</td>
<td>Digital Arts Foundations</td>
</tr>
<tr>
<td>ART 1213</td>
<td>Drawing</td>
</tr>
</tbody>
</table>

#### B. Basic courses:
Select three of the following: 9

- ART 2113 Painting: Basic
- ART 2223 New Media: Basic
- ART 2313 Photography: Basic
- ART 2413 Printmaking: Basic
- ART 2613 Sculpture: Basic
- ART 2713 Ceramics: Basic

#### C. Upper-division art course electives:
All B.A. Studio Art degree-seeking students must complete ALL lower-division ART and AHC courses required for the degree before enrolling in more than 15 hours of upper-division ART and AHC coursework. Select 12 additional semester credit hours of upper-division ART course electives. The ART course prefix must precede course numbers for all classes used to fulfill these degree requirements.

#### D. Upper-division art history and criticism course electives:
Select 6 semester credit hours of upper-division art history and criticism course electives. The AHC course prefix must precede course numbers for all classes used to fulfill these degree requirements with the exception that students may substitute a specific course in the philosophy of art or a humanities course with a strong art history component for one (3 semester credit hours) upper-division art history course with consent of the undergraduate advisor for art programs.

#### E. Required upper-division courses:
- ART 3033 Contemporary Studio: Concepts and Practice
- ART 4973 B.A. Senior Seminar (to be taken in student’s final semester prior to graduation)

#### F. Free Electives:
Select 27 semester credit hours of free electives, at least 21 hours of which must be upper-division, including as many semesters of a modern language or Latin as are necessary for the completion of the second semester course of that language. Within the scope of these electives, students may take courses for all-level teacher certification, 24 semester credit hours of professional education courses (including 6 hours of student teaching and 3 hours in a state-mandated reading course). For specific required courses, consult the Interdisciplinary Education Advising and Certification Center.

Note: For the B.A. degree in Art, the major grade point average is calculated using only ART and AHC courses.

### Course Sequence Guide for B.A. Degree in Art
This course sequence guide is designed to assist students in completing their UTSA undergraduate Art degree requirements. This is merely a guide and students must satisfy other requirements of this catalog and meet with their academic advisor for individualized degree plans. Progress within this guide depends upon such factors as course availability, individual student academic preparation, student time management, work obligations, and individual financial considerations. Students may choose to take courses during Summer terms to reduce course loads during long semesters.

Note: Students desiring to transfer into the Bachelor of Fine Arts (B.F.A.) in Art degree program should follow the B.F.A. Four-Year Academic Plan listed after the B.F.A. Degree Requirements.

### B.A. in Art – Four-Year Academic Plan
For students not planning on transferring into the Bachelor of Fine Arts in Art degree program.

#### First Year

##### Fall

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHC 1113</td>
<td>Survey of Art and Architecture from Prehistoric Times to 1350 (core and major)</td>
</tr>
<tr>
<td>AIS 1203</td>
<td>Academic Inquiry and Scholarship (core)</td>
</tr>
<tr>
<td>ART 1003</td>
<td>Two Dimensional Foundations</td>
</tr>
<tr>
<td>ART 1213</td>
<td>Drawing</td>
</tr>
<tr>
<td>ART 2613</td>
<td>Sculpture: Basic</td>
</tr>
</tbody>
</table>

##### Spring

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHC 1123</td>
<td>Survey of Art and Architecture in Europe and the New World from 1350 to 1750</td>
</tr>
<tr>
<td>ART 1013</td>
<td>Three Dimensional Foundations</td>
</tr>
<tr>
<td>ART 1023</td>
<td>Digital Arts Foundations</td>
</tr>
<tr>
<td>WRC 1023</td>
<td>Freshman Composition II (Q) (core)</td>
</tr>
<tr>
<td>Mathematics core</td>
<td>3</td>
</tr>
<tr>
<td>core course</td>
<td>3</td>
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</table>

#### Second Year

##### Fall

<table>
<thead>
<tr>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHC 1133</td>
<td>Survey of Modern Art</td>
</tr>
<tr>
<td>POL 1013</td>
<td>Introduction to American Politics (core)</td>
</tr>
<tr>
<td>Foreign Language (semester I)</td>
<td>3-4</td>
</tr>
<tr>
<td>Lower-division Studio ART Basic (choose two 2000-level studio course)</td>
<td>3</td>
</tr>
<tr>
<td>Life &amp; Physical Sciences core</td>
<td>3</td>
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</tbody>
</table>

##### Spring

<table>
<thead>
<tr>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>15-16</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL 1133 or POL 1213</td>
<td>Texas Politics and Society (core) or Civil Rights in Texas and America</td>
</tr>
<tr>
<td>Social and Behavioral Sciences core</td>
<td>3</td>
</tr>
</tbody>
</table>
Foreign Language (semester II) 3-4
Lower-division Studio ART Basic (choose one 2000-level studio course) 3
Life & Physical Sciences core 3
| Credit Hours | 15-16 |

**Third Year**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 3033</td>
<td>Contemporary Studio: Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>HIS 1043 or HIS 1053 or HIS 2053</td>
<td>United States History: Pre-Columbus to Civil War Era, or United States History: Civil War Era to Present, or Texas History (core)</td>
<td>3</td>
</tr>
<tr>
<td>Lower-division Studio ART Basic (choose one 2000-level studio course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper-division AHC elective (choose one 3000- or 4000-level course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Component Area Option core</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 1043 or HIS 1053 or HIS 2053</td>
<td>United States History: Pre-Columbus to Civil War Era, or United States History: Civil War Era to Present, or Texas History (core)</td>
<td>3</td>
</tr>
<tr>
<td>Upper-division AHC elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper-division free elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper-division Studio ART elective (choose one 3000- or 4000-level course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Fourth Year**

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language, Philosophy &amp; Culture core</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper-division free elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper-division Studio ART elective (choose one 3000- or 4000-level course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper-division Studio ART elective (choose one 3000- or 4000-level course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Free elective (to meet 120 hour minimum)</td>
<td>1-3</td>
<td></td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td><strong>15-13</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 4973</td>
<td>B.A. Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Upper-division free elective (choose one 3000- or 4000-level course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper-division free elective (choose one 3000- or 4000-level course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Upper-division free elective (choose one 3000- or 4000-level course)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td><strong>15-13</strong></td>
<td></td>
</tr>
</tbody>
</table>

| Upper-division Studio ART elective (choose one 3000- or 4000-level course) | 3 |

| Credit Hours | 15 |
| **Total Credit Hours** | **123** |

1 Must be completed with a grade of "C-" or better.

**Core Curriculum Component Area Requirements**

- First Year Experience Requirement 3
- Communication 6
- Mathematics 3
- Life and Physical Sciences 6
- Language, Philosophy and Culture 3
- Creative Arts 3
- American History 6
- Government-Political Science 6
- Social and Behavioral Sciences 3
- Component Area Option 3

| Credit Hours | 42 |

**A. Required lower-division studio art and art history foundation courses completed as part of the first 60 hours of the curriculum:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHC 1113</td>
<td>Survey of Art and Architecture from Prehistoric Times to 1350</td>
<td>3</td>
</tr>
<tr>
<td>AHC 1123</td>
<td>Survey of Art and Architecture in Europe and the New World from 1350 to 1750</td>
<td>3</td>
</tr>
<tr>
<td>AHC 1133</td>
<td>Survey of Modern Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 1003</td>
<td>Two Dimensional Foundations</td>
<td>3</td>
</tr>
<tr>
<td>ART 1013</td>
<td>Three Dimensional Foundations</td>
<td>3</td>
</tr>
<tr>
<td>ART 1023</td>
<td>Digital Arts Foundations</td>
<td>3</td>
</tr>
<tr>
<td>ART 1213</td>
<td>Drawing I</td>
<td>3</td>
</tr>
</tbody>
</table>

**B. Upper-division art courses including:**

All B.F.A. degree-seeking students must complete ALL lower-division ART and AHC courses required for the degree before enrolling in more than 15 hours of upper-division ART and AHC coursework.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 3033</td>
<td>Contemporary Studio: Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ART 4983</td>
<td>B.F.A. Senior Seminar and Exhibition</td>
<td>3</td>
</tr>
</tbody>
</table>

**C. Upper-division art courses in one selected area of studio specialization:**

Complete 15 hours (5 courses) of upper-division coursework from one of the following specialized areas of study: ceramics, drawing, new media, painting, photography, printmaking, or sculpture.
D. Upper-division art history and criticism courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHC 3113</td>
<td>Contemporary Art</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 semester credit hours of upper-division art history and criticism courses. The AHC course prefix must precede course numbers for all classes used to fulfill these degree requirements with the exception that students may substitute a specific course in the philosophy of art or a humanities course with a strong art history component for one (3 semester credit hours) upper-division art history course with consent of the undergraduate advisor for art programs.

E. Art course electives:

Select 12 additional semester credit hours of ART coursework. Nine (9) credit hours of the 12 must be upper-division while 3 credit hours may be lower-division. The ART course prefix must precede course numbers for all classes used to fulfill these degree requirements.

Note: ART 1223 Drawing II is a required course for B.F.A. majors specializing in drawing, painting, and sculpture and thus will take the place of the 3-hour lower-division art elective.

Total Credit Hours 81

A grade of "C-" or better must be earned in these courses to satisfy the prerequisites for subsequent courses in the Art major.
Upper-division ART specialization (choose one 3000- or 4000-level course) 3

Credit Hours 15

Fourth Year

Fall

Art 3033 Contemporary Studio: Concepts and Practice 3

Upper-division ART elective (choose one 3000- or 4000-level course) 3

Upper-division AHC elective (choose one 3000- or 4000-level course) 3

Upper-division ART specialization (choose one 3000- or 4000-level course) 3

Credit Hours 15

Spring

Art 4983 B.F.A. Senior Seminar and Exhibition 3

Upper-division ART Elective (choose one 3000- or 4000-level course) 3

Upper-division ART Elective (choose one 3000- or 4000-level course) 3

Upper-division ART specialization (choose one 3000- or 4000-level course) 3

Upper-division AHC elective (choose one 3000- or 4000-level course) 3

Credit Hours 15

Total Credit Hours 120

1 Must be completed with a grade of "C-" or better.

Core Curriculum Component Area Requirements (http://catalog.utsa.edu/undergraduate/bachelorsdegree/regulations/degree/requirements/corecurriculumcomponentarequirements)

First Year Experience Requirement 3

Communication 6

Mathematics 3

Life and Physical Sciences 6

Language, Philosophy and Culture 3

Creative Arts 3

American History 6

Government-Political Science 6

Social and Behavioral Sciences 3

Component Area Option 3

Total Credit Hours 42

AHC 1123 Survey of Art and Architecture from Prehistoric Times to 1350 3

AHC 1123 Survey of Art and Architecture in Europe and the New World from 1350 to 1750 3

AHC 1133 Survey of Modern Art 3

B. Upper-division art history and criticism required courses:

AHC 3113 Contemporary Art 3

AHC 3423 Arts of Ancient Mesoamerica 3

AHC 3523 Latin American Art 3

AHC 4333 Topics in Art History and Criticism (may be repeated for credit when topics vary) 3

AHC 4933 Art Gallery and Museum Internship 3

C. Lower-division art courses:

ART 1003 Two Dimensional Foundations 3

ART 1013 Three Dimensional Foundations 3

ART 1023 Digital Arts Foundations 3

D. Upper-division art history course option:

Select one (1) upper-division course in Art History and Criticism (AHC) 3

E. Upper-division art course:

AHC 4973 B.A. Senior Seminar 3

F. Additional coursework options:

Select 6 additional semester credit hours in coursework to be chosen from offerings within the College of Liberal and Fine Arts, which may include art history (AHC), art (ART), anthropology (ANT), classical studies (CLA), communication (COM), English (ENG), history (HIS), humanities (HUM), philosophy (PHI), or other subjects as individually justified by the student and approved by the undergraduate advisor. 6

G. Electives:

Select 33 semester credit hours of electives, at least 18 of which must be upper-division, and including as many semesters of a single language other than English are necessary for the completion of the fourth UTSA semester course of that language. 33

Total Credit Hours 78

1 A grade of "C-" or better must be earned in these courses to satisfy the prerequisites for subsequent courses in the Art History and Criticism major.

First Year

Fall

AHC 1113 Survey of Art and Architecture from Prehistoric Times to 1350 (core and major) 3

AIS 1203 Academic Inquiry and Scholarship (core) 3

ART 1003 Two Dimensional Foundations 3

ART 1023 Digital Arts Foundations 3

WRC 1013 Freshman Composition I (Q) (core) 3

Credit Hours 15

Spring

AHC 1123 Survey of Art and Architecture in Europe and the New World from 1350 to 1750 3

ART 1013 Three Dimensional Foundations 3

WRC 1023 Freshman Composition II (Q) (core) 3

Language (semester I) 3-4
<table>
<thead>
<tr>
<th>Mathematics core</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>AHC 1133</td>
<td>Survey of Modern Art</td>
</tr>
<tr>
<td>Language (semester II)</td>
<td>3-4</td>
</tr>
<tr>
<td>Language, Philosophy &amp; Culture core</td>
<td>3</td>
</tr>
<tr>
<td>Life &amp; Physical Sciences core</td>
<td>3</td>
</tr>
<tr>
<td>Upper-division elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>POL 1013</td>
<td>Introduction to American Politics (core)</td>
</tr>
<tr>
<td>Language (semester III)</td>
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</tr>
<tr>
<td>Social and Behavioral Sciences core</td>
<td>3</td>
</tr>
<tr>
<td>Life &amp; Physical Sciences core</td>
<td>3</td>
</tr>
<tr>
<td>Upper-division AHC (choose one 3000- or 4000-level course)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Third Year</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>POL 1133 or POL 1213</td>
<td>Texas Politics and Society (core) or Civil Rights in Texas and America</td>
</tr>
<tr>
<td>Language (semester IV)</td>
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<td>Upper-division AHC (choose one 3000- or 4000-level course)</td>
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<td>Component Area Option core</td>
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<td><strong>Credit Hours</strong></td>
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<tr>
<td>HIS 1043 or HIS 1053 or HIS 2053</td>
<td>United States History: Pre-Columbus to Civil War Era, or United States History: Civil War Era to Present, or Texas History (core), or United States History: Civil War Era to Present or Texas History</td>
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<tr>
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<tr>
<td><strong>Credit Hours</strong></td>
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<td><strong>Fourth Year</strong></td>
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<td><strong>Fall</strong></td>
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<td>HIS 1043 or HIS 1053 or HIS 2053</td>
<td>United States History: Pre-Columbus to Civil War Era, or United States History: Civil War Era to Present, or Texas History (core), or United States History: Civil War Era to Present or Texas History</td>
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<td>Upper-division AHC (choose one 3000- or 4000-level course)</td>
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<td><strong>Credit Hours</strong></td>
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**Total Credit Hours** 120

1 Must be completed with a grade of "C-" or better.

**For training (make any changes you like)**

- Minor in Marketing (p. 6)
- Minor in Sport Management (p. 6)

**Minor in Marketing**

The Minor in Marketing is available only to students pursuing a B.B.A. degree. All students pursuing the Minor in Marketing must complete 18 semester credit hours.

**A. Required coursework**

| MKT 3013 | Principles of Marketing |

**B. Additional courses** 15

Select five of the following courses:

- MKT 3043 Advertising
- MKT 3063 Personal Selling
- MKT 3083 Marketing Research
- MKT 3113 Retailing
- MKT 4063 Multicultural Marketing
- MKT 4073 International Marketing
- MKT 4093 Consumer Behavior
- MKT 4143 Sports Marketing
- MKT 4233 Integrated Marketing Communications
- MKT 4953 Special Studies in Marketing

**Total Credit Hours** 18

To declare a Minor in Marketing, obtain advice, and seek approval of substitutions for course requirements, students must consult their academic advisor.

**Minor in Sport Management**

The Minor in Sport Management is available only to students pursuing a B.B.A. degree. All students pursuing the Minor in Sport Management must complete 18 semester credit hours of coursework.

**A. Required Courses** 9

| MGT 3013 | Introduction to Organization Theory, Behavior, and Management |
| SET 3233 | Sport Management |
Minor in Courseleaf

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tr>
<td>AAS 2013</td>
<td>Introduction to African American Studies</td>
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<tr>
<td>AAS 3013</td>
<td>African American Cultural Experiences</td>
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<td>AAS 3123</td>
<td>Civil Rights Movement &amp; African American Education</td>
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<td>AAS 4911</td>
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Total Credit Hours: 10

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<td>ACC 2033</td>
<td>Principles of Accounting II</td>
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<td>COM 1053</td>
<td>Business and Professional Speech</td>
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<tr>
<td>or COM 1063</td>
<td>Digital Business Communication</td>
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<td>ECO 2013</td>
<td>Introductory Macroeconomics</td>
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<td>ECO 2023</td>
<td>Introductory Microeconomics (satisfies Social and Behavioral Sciences Core Curriculum requirement)</td>
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<td>FIN 3013</td>
<td>Principles of Business Finance</td>
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<tr>
<td>GBA 2013</td>
<td>Legal, Social and Ethical Issues in Business</td>
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<td>IS 1403</td>
<td>Business Information Systems Fluency</td>
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<tr>
<td>IS 3003</td>
<td>Principles of Information Systems for Management</td>
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<tr>
<td>MAT 1133</td>
<td>Calculus for Business (satisfies Mathematics Core Curriculum requirement, Actuarial Science majors must take MAT 1214 in lieu of MAT 1133)</td>
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<tr>
<td>MGT 3003</td>
<td>Business Communication and Professional Development</td>
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<tr>
<td>MGT 3013</td>
<td>Introduction to Organization Theory, Behavior, and Management</td>
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<tr>
<td>MGT 4893</td>
<td>Management Strategy (taken in semester of graduation)</td>
<td>3</td>
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<tr>
<td>MKT 3013</td>
<td>Principles of Marketing</td>
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<tr>
<td>MS 1023</td>
<td>Business Statistics with Computer Applications I (Actuarial Science majors must take STA 3003 in lieu of MS 1023)</td>
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<td>MS 3043</td>
<td>Business Statistics with Computer Applications II (Actuarial Science majors must take STA 3513 in lieu of MS 3043)</td>
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<td>MS 3053</td>
<td>Management Science and Operations Technology</td>
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Note: Students majoring in Accounting, Actuarial Science, Economics, Finance, Management Science, Business Analytics, and Statistics and Data Science are strongly encouraged to select IS 1413 Excel for Business Information Systems.

Architecture (ARC) Courses

ARC 1113. Introduction to the Built Environment. (3-0) 3 Credit Hours. (TCCN = ARCH 1311)
Prerequisites: Completion of or concurrent enrollment in ARC 1213 and ARC 1313. An introduction to the design and construction of the built environment. Includes consideration of professional practice, ethics, interior design, landscape architecture, planning, urbanism and construction. May be applied toward the core curriculum requirement in Language, Philosophy and Culture. (Formerly COA 1113. Credit cannot be earned for both ARC 1113 and COA 1113.) Course Fees: LRC1 $12; SAP1 $25; STSA $15.

ARC 1133. Construction Material and Concepts. (3-0) 3 Credit Hours.
Introduction to concepts and skills fundamental to structure, construction, building enclosure, sustainability, and interior environments. Analysis and selection of materials, components, and assemblies. Introduction to the historic role of materials in architectural and interior design. (Formerly ARC 2213 and COA 1133. Credit cannot be earned for ARC 1133 and either ARC 2213 or COA 1133.) Course Fees: SAP1 $25; STSA $15.

ARC 1151. Introduction to Architecture and Design. (1-0) 1 Credit Hour.
A lecture course introducing ideas and concepts associated with architectural and interior design. Course Fees: SAP1 $25; STSA $5.

ARC 1213. Design I. (0-8) 3 Credit Hours. (TCCN = ARCH 1303)
Introduction to design through a focus on design literacy and the creative conceptualization through direct engagement with materials and processes of making. Introduction to architectural design processes, materials, precedents, and architectural ideas. Projects investigate basic issues fundamental to design and experience of human environments. (Formerly ARC 1214 and COA 1213. Credit cannot be earned for more than one of the following: ARC 1214, ARC 1213, or COA 1213.) Course Fees: SAP1 $25; STSA $15.

ARC 1224. Design II. (1-8) 4 Credit Hours.
Prerequisites: ARC 1213 and ARC 1313. Introduction to design as a broadly creative process that stresses creative and conceptual development through representational visualization. Explores the role of spatial experience, context, program, architectural form, circulation, elements, materials, human factors, color, and light in the design of human environments. Introduction to spatial types and ordering systems, architectural precedents, architectural conventions, and critical thought pertaining to design of the built environment. Includes a weekly lecture. (Formerly ARC 1223. Credit cannot be earned for both ARC 1223 and ARC 1224.) Course Fees: SAP1 $25; STSA $15.

ARC 1313. Design Visualization. (0-8) 3 Credit Hours.
Prerequisites: Completion of or concurrent enrollment in ARC 1113 and ARC 1213. Introductory exploration of graphic processes and techniques utilized in the design and construction of the built environment for the representation, visualization, analysis, and presentation of the designed environment. (Formerly COA 1313. Credit cannot be earned for both ARC 1313 and COA 1313.) Course Fees: SAP1 $25; STSA $15.
ARC 1513. Great Buildings and Cities of the World. (3-0) 3 Credit Hours.
Introducing buildings and places that exemplify timeless architectural concepts and design strategies considered enduring contributions to the cultural heritage of the world. Examples from Africa, Asia, Europe, and the Americas are presented within the context of diverse cultures and express a variety of different aesthetic, political, and religious values. The course draws from diverse sources from high culture and vernacular sources span from antiquity to the present. May be applied toward the core curriculum requirement in Creative Arts. Course Fees: LRC1 $12; SAP1 $25; STSA $15.

ARC 2133. Principles of Architectural Structures. (3-0) 3 Credit Hours.
Prerequisite: Enrollment as an ARC or IDE major. An introduction to the principles of architectural structures as related to architectural design. Includes consideration of spatial, structural, and aesthetic issues of building structural systems, and introduces structural behavior, forces and responses in structural systems. Course Fees: SAP1 $25; STSA $15.

ARC 2156. Drawing and Modeling Studio. (0-14) 6 Credit Hours.
Prerequisite: Enrollment as an ARC or IDE major. Architectural design through the agency of model building and drawing. Course focuses on the design of buildings (including consideration of structure, material, space, and form) responsive to the site and context. Course Fees: SAP1 $25; STSA $30.

ARC 2166. Digital Design Studio. (0-14) 6 Credit Hours.
Prerequisites: Enrollment as an ARC or IDE major. Architectural design through the agency of digital design media. Course focuses on the design of buildings (including consideration of structure, material, space, and form) responsive to the site and context. Course Fees: SAP1 $25; STSA $15.

ARC 2233. Principles of Environmental Systems. (3-0) 3 Credit Hours.
Prerequisite: Enrollment as an ARC or IDE major. Introduction to the design of environmentally responsive buildings and the natural and artificial systems that support them. Includes consideration of topics such as, embodied energy, active and passive heating and cooling, indoor air quality, solar orientation, daylighting and artificial illumination, acoustics, and building services systems. Course Fees: SAP1 $25; STSA $15.

ARC 2413. History of Architecture I. (3-0) 3 Credit Hours. (TCCN = ARCH 1301)
Introduction to the history of architecture, urbanism, and material culture from prehistory to the 15th century. Explores the varied ways in which architecture reflects and shapes social, religious, and political concerns in the Western and non-Western world. May be applied toward the core curriculum requirement in Creative Arts. Generally offered: Fall, Spring. Course Fees: LRC1 $12; SAP1 $25; STSA $15.

ARC 2423. History of Architecture II. (3-0) 3 Credit Hours. (TCCN = ARCH 1302)
Introduction to the history of architecture, urbanism, and material culture from the 15th to the 20th century. Explores the varied ways in which architecture reflects and shapes social, religious, and political concerns in the Western and non-Western world. Generally offered: Spring. Course Fees: SAP1 $25; STSA $15.

ARC 2513. Digital Design Media. (2-2) 3 Credit Hours.
Prerequisites: Enrollment as an ARC or IDE major and consent of instructor. Introduction to 2-dimensional and 3-dimensional digital design media. Addresses design skills, principles, techniques, procedures, and knowledge of how digital media impacts the design process, profession, and design culture. Generally offered: Fall. Course Fees: SAP1 $25; STSA $15.

ARC 3113. Advanced Design Visualization. (0-6) 3 Credit Hours.
Prerequisite: Enrollment as an Architecture or an Interior Design major or permission of instructor. Advanced exploration of graphic processes and techniques utilized in the design and construction of built environment for the representation, analysis, visualization, and/or presentation of the designed environment. May be repeated for credit when topics vary. Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $15.

ARC 3433. Topics in Architecture and Thought. (3-0) 3 Credit Hours.
Prerequisites: Enrollment as an Architecture or Interior Design major and consent of instructor. A lecture/seminar course that provides students the opportunity to explore a variety of architectural ideas, concepts, theories, approaches, or topics related to architectural design. May be repeated for credit when topics vary. Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $15.

ARC 3613. History of Modern Architecture. (3-0) 3 Credit Hours.
Prerequisites: WRC 1013 and WRC 1023. Study of the social, aesthetic, theoretical, technical, cultural, and professional forces that form, shape, and communicate modern architecture. Completion of ARC 2413 and ARC 2423 is recommended for Architecture and Interior Design majors. Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $15.

ARC 4143. Architecture Topics. (3-0) 3 Credit Hours.
Prerequisites: ARC 2156 and ARC 2166 or consent of instructor. A course exploring issues in architecture. May be repeated for credit when topics vary. Course Fees: SAP1 $25; STSA $15.

ARC 4156. Building Design Studio. (0-14) 6 Credit Hours.
Prerequisites: WRC 1013 and WRC 1023. Study of the social, aesthetic, theoretical, technical, cultural, and professional forces that form, shape, and communicate modern architecture. Completion of ARC 2413 and ARC 2423 is recommended for Architecture and Interior Design majors. Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $15.

ARC 4183. Environmental Systems. (2-2) 3 Credit Hours.
Prerequisites: ARC 2156, ARC 2166, and ARC 2233. Advanced issues in the design of environmentally responsive buildings and the natural and artificial systems that support them, such as embodied energy, active and passive heating and cooling, indoor air quality, solar orientation, daylighting and artificial illumination, acoustics, and building services systems. Includes the use of appropriate performance assessment tools. Course Fees: SAP1 $25; STSA $30.

ARC 4213. Furniture Design and Construction. (0-8) 3 Credit Hours.
Prerequisite: ARC 2156, ARC 2166, or consent of instructor. Focuses on essential elements of furniture design and construction, emphasizing relations to architectural space, human factors, and the use of materials, connections, and finishes. Course Fees: SAP1 $25; STSA $15.

ARC 4223. Topics in Design Computing. (2-2) 3 Credit Hours.
Prerequisite: ARC 2513 or consent of instructor. Theory-based seminar course exploring critical, spatial and philosophical issues relative to the impact of digital technologies within the field of architecture. Involves some usage of 2-D and 3-D digital media. Course Fees: SAP1 $25; STSA $15.

ARC 4233. Computer Projects in Design. (2-2) 3 Credit Hours.
Prerequisite: ARC 2513 or consent of instructor. Project-driven laboratory course exploring advanced issues associated with 3-D modeling, animation, photo-realistic visualization, and computer-aided manufacturing. Considers the role these processes play in architectural and interior design. (Same as IDE 4233. Credit cannot be earned for both ARC 4233 and IDE 4233.) Course Fees: SAP1 $25; STSA $15.
ARC 4246. Systems Studio. (0-14) 6 Credit Hours.  
Prerequisite: ARC 4156 (taken twice). Advanced architectural design studio addressing the theoretical and practical issues of considerate and responsible design and detailing of a small building from the ground up. Addresses the whole building in terms of its integration with the site and climate, its structural, environmental, daylighting, and envelope systems as well as accessibility, life safety, and vertical circulation. Course Fees: SAP1 $25; STSA $30.

ARC 4283. Architectural Structures. (2-2) 3 Credit Hours.  
Prerequisites: ARC 2156 and ARC 2166. Advanced study of architectural structures; considers the physical principles that govern classical statics and strength of materials. Graphical and mathematical design of structural systems. Consideration of the role of structural articulation in the design of buildings. Course Fees: SAP1 $25; STSA $15.

ARC 4333. Practicum/Internship. (0-0) 3 Credit Hours.  
Prerequisites: ARC 2156 and ARC 2166 and consent of instructor. Offers students majoring in architecture or interior design a supervised professional practice experience with public agencies or private firms. Individual conferences and written reports required. Generally offered: Summer. Course Fees: SAP1 $25; STSA $15.

ARC 4816. International Studies Studio. (0-14) 6 Credit Hours.  
Prerequisites: ARC 2156 and ARC 2166 or consent of instructor. An architecture or planning studio associated with a study abroad program. (Formerly titled "Study Abroad: Studio.") (Same as IDE 4816. Credit cannot be earned for both ARC 4816 and IDE 4816.) Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $30.

ARC 4823. International Studies Theory Seminar. (3-0) 3 Credit Hours.  
Prerequisites: ARC 2156 and ARC 2166 or consent of instructor. A lecture/seminar course associated with a study abroad program; involves field trips. (Formerly titled "Study Abroad: History/Theory") (Same as IDE 4823. Credit cannot be earned for both ARC 4823 and IDE 4823.) Generally offered: Spring. Course Fees: SAP1 $25; STSA $30.

ARC 4833. International Studies Drawing Seminar. (0-8) 3 Credit Hours.  
Prerequisites: ARC 2156 and ARC 2166 or consent of instructor. A drawing course associated with a study abroad program; involves field trips. (Formerly titled "Study Abroad: Observational Drawing.") (Same as IDE 4833. Credit cannot be earned for both ARC 4833 and IDE 4833.) Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $15.

ARC 4843. International Studies History Seminar. (3-0) 3 Credit Hours.  
Prerequisites: ARC 2156 and ARC 2166 or consent of instructor. A lecture/seminar course associated with a study abroad program; involves field trips. (Same as IDE 4843. Credit cannot be earned for both ARC 4843 and IDE 4843.) Course Fees: SAP1 $25; STSA $15.

ARC 4911. Independent Study. (0-0) 1 Credit Hour.  
Prerequisites: Permission in writing (form available) of the instructor, the student’s advisor, the Department Chair, and the Dean of the College in which the course is offered. Scholarly research under the direction of a faculty member. May be repeated for credit, but not more than 6 semester credit hours of independent study, regardless of discipline, may apply to a bachelor’s degree. Course Fees: SAP1 $25; STSA $5.

ARC 4913. Independent Study. (0-0) 3 Credit Hours.  
Prerequisites: Permission in writing (form available) of the instructor, the student’s advisor, the Department Chair, and the Dean of the College in which the course is offered. Scholarly research under the direction of a faculty member. May be repeated for credit, but not more than 6 semester credit hours of independent study, regardless of discipline, may apply to a bachelor’s degree. Course Fees: SAP1 $25; STSA $15.

ARC 4916. Independent Study. (0-0) 6 Credit Hours.  
Prerequisites: Permission in writing (form available) of the instructor, the student’s advisor, the Department Chair, and the Dean of the College in which the course is offered. Scholarly research under the direction of a faculty member. May be repeated for credit, but not more than 6 semester credit hours of independent study, regardless of discipline, may apply to a bachelor’s degree. Course Fees: SAP1 $25; STSA $30.

ARC 4953. Special Studies in Architecture. (3-0) 3 Credit Hours.  
Prerequisite: Consent of instructor. An organized course offering the opportunity for specialized study not normally or often available as part of the regular course offerings. Special studies may be repeated for credit when the topics vary, but not more than 3 semester credit hours for ARC 4953 or 12 hours for ARC 4956, regardless of discipline, will apply to a bachelor’s degree. Course Fees: SAP1 $25; STSA $15.

ARC 4956. Special Studies in Architecture. (0-14) 6 Credit Hours.  
Prerequisite: Consent of instructor. An organized course offering the opportunity for specialized study not normally or often available as part of the regular course offerings. Special studies may be repeated for credit when the topics vary, but not more than 3 semester credit hours for ARC 4953 or 12 hours for ARC 4956, regardless of discipline, will apply to a bachelor’s degree. Course Fees: SAP1 $25; STSA $15.

ARC 5003. Architectural Principles. (2-2) 3 Credit Hours.  
Prerequisite: Enrollment in the M.Arch. 3 program. An introduction to the basic principles and skills associated with architectural design. Course Fees: SAP1 $25; STSA $15.

ARC 5011. Introduction to Architecture and Design. (1-0) 1 Credit Hour.  
Prerequisite: Enrollment in the M.Arch. 3 program. A lecture course introducing ideas and concepts associated with architecture and design. Course Fees: SAP1 $25.

ARC 5113. Design and Leadership. (3-0) 3 Credit Hours.  
An in-depth study of design as a form of leadership in the emerging global environment. Includes consideration of leadership qualities to affect change through design and practice. Course Fees: SAP1 $25; STSA $15.

ARC 5133. Professional Architectural Practice and Ethics. (3-0) 3 Credit Hours.  
Prerequisite: ARC 6146. A study of national, international and legal business practices and conventions relating to the building industry. Course material considers project delivery options, construction methodologies and corresponding administration systems, liability, contract documents, and ethics as practices that inform the professional practice of architecture. (Formerly titled "Professional Practice and Construction in a Global Setting.") Course Fees: SAP1 $25; STSA $15.

ARC 5156. Introductory Design Studio I. (0-14) 6 Credit Hours.  
Prerequisite: Enrollment in the M.Arch. 3 program. Architectural design as a theoretically informed and creative process. Provides students the opportunity to acquire fundamental design skills for the creative and practical design of architectural environments. Projects consider spatial experience, contextual response, building form and structure and the development of representational skills. (Formerly ARC 5196. Credit cannot be earned for both ARC 5156 and ARC 5196.) Course Fees: SAP1 $25; STSA $30.

ARC 5163. Current Issues and Topics in Contemporary Architecture. (3-0) 3 Credit Hours.  
A critical survey of the leading issues, theories, writings, projects, and built works of architecture over the past 20 years. May be repeated for credit once when topics vary. Course Fees: SAP1 $25; STSA $15.
ARC 5166. Introductory Design Studio II. (0-14) 6 Credit Hours.
Prerequisites: ARC 5156 and enrollment in the M.Arch. 3 program.
Provides students the opportunity to acquire design skills in the
application of building technology and material use through the
consideration of building structure and envelope. Projects consider
spatial experience, programming, organizational concepts, building-to-
site relations, and tectonics. Course Fees: SAP1 $25; STSA $30.

ARC 5173. Architectural Theory and Criticism. (3-0) 3 Credit Hours.
A survey of contemporary architectural theory and criticism from 1950 to
the present. May be repeated for credit once when topics vary. (Formerly
COA 5173. Credit cannot be earned for both ARC 5173 and COA 5173.)
Course Fees: SAP1 $25; STSA $15.

ARC 5176. Introductory Design Studio III. (0-14) 6 Credit Hours.
Prerequisites: ARC 5166 and enrollment in the M.Arch. 3 program.
Architectural design as a theoretically informed and creative process.
Provides students the opportunity to acquire design skills in the
application of building technology and material use through the
consideration of building structure and envelope. Projects of increasing
complexity considering architectural order, precedent, urban and non-
urban contexts, building performance, structure and detailing. Continues
investigation of traditional and digital media. Course Fees: SAP1 $25;
STSA $30.

(3-0) 3 Credit Hours.
A study of global, historical, and cross-cultural architectural principles.
Consideration is given to the political, social, ecological, economical,
and/or technological context that informs the work as well as the diverse
social and spatial patterns, values, and needs of those who occupy and
use buildings. Course Fees: SAP1 $25; STSA $15.

ARC 5203. History and Theory of Preservation. (3-0) 3 Credit Hours.
An introduction to the history, philosophy, methodologies and practices of
historic preservation and restoration. Course Fees: SAP1 $25; STSA $15.

ARC 5233. Architectural Surveys and Measured Drawings. (3-0) 3 Credit Hours.
A survey of documentation and interpretation of sites and buildings and
graphic recording techniques. Course Fees: SAP1 $25; STSA $15.

ARC 5403. Historic Preservation Seminar. (3-0) 3 Credit Hours.
An advanced study of selected topics in architecture, design,
preservation, and planning. May be repeated once for credit, when topics
vary. Course Fees: SAP1 $25; STSA $15.

ARC 5423. Legal and Economic Aspects of Preservation. (3-0) 3 Credit Hours.
A survey of the laws and regulations that affect preservation of the built
environment, nationally, regionally, and locally. Includes considerations of
fundamentals of legal protection for and regulation of historic
cultural resources in light of contemporary attitudes toward the historic
environment, and the economic bases of the use of historic buildings and
sites examined in terms of contemporary social and cultural attitudes that
determine effective strategies of preservation action. Course Fees:
SAP1 $25; STSA $15.

ARC 5533. Contemporary Materials in Architecture and Design. (1-4) 3 Credit Hours.
A survey and examination of contemporary materials from multiple
perspectives. Includes consideration of the characteristics and
applications of existing, new, and emerging materials. Includes design
project. Course Fees: SAP1 $25; STSA $15.

ARC 5543. Advanced Digital Design and Fabrication Technologies in
Architecture. (3-0) 3 Credit Hours.
An in-depth examination of contemporary digital design and fabrication
technologies in architecture and other design disciplines. Course Fees:
SAP1 $25; STSA $15.

ARC 5603. Advanced Seminar in Architectural History. (3-0) 3 Credit Hours.
An in-depth study or survey investigating selected topics in architectural
history. May be repeated once for credit, when topics vary. Course Fees:
SAP1 $25; STSA $15.

ARC 5613. American Architecture. (3-0) 3 Credit Hours.
A survey of the development of the architecture of the United States from
the earliest human settlements to the present. Course Fees: SAP1 $25;
STSA $15.

ARC 5623. History of Modern Architecture. (3-0) 3 Credit Hours.
Prerequisite: Enrollment in the M.Arch. 3 program. Study of the social,
aesthetic, theoretical, technical, cultural, Western and non-Western, and
professional forces that form, shape, and constitute architecture of the
modern era. Course Fees: SAP1 $25; STSA $15.

ARC 5643. Modern Architecture of Mexico. (3-0) 3 Credit Hours.
A survey of the architecture and urbanism of Mexico from Independence
in 1821 to the present. Course Fees: SAP1 $25; STSA $15.

ARC 5653. Pre-Columbian and Colonial Architecture of Mexico. (3-0) 3 Credit Hours.
A survey of the architecture and urbanism of Mexico during the pre-
Columbian and Colonial eras. Course Fees: SAP1 $25; STSA $15.

ARC 5663. The Architecture and Cities of Northern Mexico. (3-0) 3 Credit Hours.
A detailed survey of the architecture and urbanism of the border states of
Northern Mexico, focusing on the modern era from 1821 to the present.
Course Fees: SAP1 $25; STSA $15.

ARC 5713. Environmental Architecture and Sustainability. (3-0) 3 Credit Hours.
A study of history and theory of environmentally sustainable design.
Includes the review of the general discourse of sustainability and
consideration of the tools and techniques employed to produce
sustainable architectural environments. (Formerly ARC 5153. Credit
cannot be earned for both ARC 5713 and ARC 5153.) Course Fees: SAP1
$25; STSA $15.

ARC 5723. Applications in Sustainable Design. (3-0) 3 Credit Hours.
An introduction to the integration of environmental performance
criteria in architectural design. Includes the application of simulation
methods, design decision support tools, rating systems (e.g., LEED), and
consideration of building energy consumption patterns, conservation
strategies, solar shading, solar access, integration of electric and
daylight, and the life cycle analysis of materials and systems. Course
Fees: SAP1 $25; STSA $15.

ARC 5733. Advanced Building Technology and Sustainability. (3-0) 3 Credit Hours.
An advanced study of building technology, sustainability, and building
performance. Includes consideration of sustainable techniques,
technologies, building enclosure, and environmental systems for new
and existing buildings. Addresses issues of systems integration and
performance optimization. (Credit cannot be earned for both ARC 5513
and ARC 5733.) Course Fees: SAP1 $25; STSA $15.
ARC 5743. Building Performance Modeling and Simulation. (3-0) 3 Credit Hours.
An introduction to the integration of building performance modeling and simulation into the design process to improve building performance in new and existing buildings. Includes consideration of building energy consumption patterns, conservation strategies, solar shading, solar access, and integration of electric lighting and daylighting. Course Fees: SAP1 $25; STSA $15.

ARC 5753. Advanced Daylighting Design and Analysis. (3-0) 3 Credit Hours.
A study of the design, analysis methods, and technologies of architectural daylighting. Includes issues of the visual environment, daylight availability, lighting and energy use, lighting and thermal comfort, and the integration of electric lighting and daylighting. Course Fees: SAP1 $25; STSA $15.

ARC 5763. Post-Occupancy Evaluation of Buildings. (3-0) 3 Credit Hours.

ARC 5773. Environmental Life Cycle Assessment of Buildings. (3-0) 3 Credit Hours.
An introduction to the principles, and assessment methods used in the environmental LCA of new and existing buildings. Includes a study of the relationship between product life cycle and environmental impact, resource conservation, and pollution prevention; interpretation of LCA results, integration of LCA in building design and environmental rating systems. Course Fees: SAP1 $25; STSA $15.

ARC 5813. History and Theory of Urban Form. (3-0) 3 Credit Hours.
Considers the origins and characteristics of cities, their current condition, and emerging theories of urban design. Course Fees: SAP1 $25; STSA $15.

ARC 5913. Introduction to Construction Materials and Concepts. (3-0) 3 Credit Hours.
Prerequisite: Enrollment in the M.Arch. 3 program. Introduction to concepts and skills fundamental to structures, construction, building enclosure, sustainability, and interior environments along with the analysis and selection of materials, components, and assemblies. Provides an introduction to the historical role of materials in architectural and interior design. Course Fees: SAP1 $25; STSA $15.

ARC 5923. Principles of Structures. (3-0) 3 Credit Hours.
Prerequisite: Enrollment in the M.Arch. 3 program. Introduction to architectural structures including the principles and systems of structural materials that consider the spatial, structural, sustainable, and aesthetic qualities possible in the articulation of structure through architectural design. (Formerly titled "Introduction to Structures I") Course Fees: SAP1 $25; STSA $15.

ARC 5933. Structures. (2-2) 3 Credit Hours.
Prerequisites: ARC 5923 and enrollment in the M.Arch. 3 program. Continued introduction to architectural structures that considers the physical principles that govern classical statics and strength of materials, the graphical and mathematical design of structural systems and the role of structural articulation in the design of buildings. (Formerly titled "Introduction to Structures II") Course Fees: SAP1 $25; STSA $15.

ARC 5943. Principles of Environmental Systems. (3-0) 3 Credit Hours.
Prerequisite: Enrollment in the M.Arch. 3 program. Environmentally responsive design of buildings and the natural and artificial systems that support them, including heating, ventilation, cooling, water, and waste management. (Formerly titled "Introduction to Environmental Systems I") Course Fees: SAP1 $25; STSA $15.

ARC 5953. Environmental Systems. (2-2) 3 Credit Hours.
Prerequisites: ARC 5943 and enrollment in the M.Arch. 3 program. Light and sound as design considerations in building design including the natural and artificial systems that support them. Course deals with illumination, electrical design, and acoustics. (Formerly titled "Introduction to Environmental Systems II") Course Fees: SAP1 $25; STSA $15.

ARC 6003. Morphology of the Architecture of the Southwest. (3-0) 3 Credit Hours.
An examination of environmental conditions, cultural traditions, social patterns, building conventions, and aesthetic intentions that have influenced the architecture and planning of communities in South Texas, the Southwest, and the North Mexican borderlands. (Formerly ARC 6123. Credit cannot be earned for both ARC 6003 and ARC 6123.) Course Fees: SAP1 $25; STSA $15.

ARC 6013. Theories and Philosophies of Regionalism. (3-0) 3 Credit Hours.
A survey of the discourse of architectural regionalism. Includes consideration of regionalist theory and practice in the twentieth century, regional planning, critical regionalism, bioregionalism, sustainability, and issues such as modernity, globalization, cultural identity, authenticity, place, and tradition. (Formerly ARC 5213. Credit cannot be earned for both ARC 6013 and ARC 5213.) Course Fees: SAP1 $25; STSA $15.

ARC 6126. Advanced Design Studio. (0-14) 6 Credit Hours.
Prerequisites: Completion of, or concurrent enrollment in, ARC 5173 and ARC 5733. An introduction to advanced architectural design, including the role of research, program preparation, and technological integration in architectural design. Course Fees: SAP1 $25; STSA $30.

ARC 6136. Advanced Topics Studio. (0-14) 6 Credit Hours.
Prerequisite: ARC 6126. An advanced architectural design studio, which allows faculty and students to explore a range of architecture-related topics in a studio setting. Content varies. (Formerly titled "Advanced Design Studio II") Course Fees: SAP1 $25; STSA $30.

ARC 6146. Advanced Technical Studio. (0-14) 6 Credit Hours.
Prerequisites: ARC 6136, graduate standing and consent of instructor. An advanced architectural design studio, which includes the integration of building materials, services, and systems, technical documentation and comprehensive design. (Formerly titled "Advanced Design Studio III") Course Fees: SAP1 $25; STSA $30.

ARC 6223. Digital Design. (2-2) 3 Credit Hours.
Prerequisite: Consent of instructor. Project-driven lecture/laboratory course exploring advanced issues associated with 3-D modeling, animation, photo-realistic visualization, and computer-aided manufacturing. Considers the role these processes play in architectural and interior design. Course Fees: SAP1 $25; STSA $15.

ARC 6243. Advanced Design Visualization. (0-6) 3 Credit Hours.
Advanced exploration of graphic processes and techniques utilized in the design of the built environment. Course Fees: SAP1 $25; STSA $15.
ARC 6323. Master's Research Preparation. (3-0) 3 Credit Hours.
Prequisite: Consent of instructor. An advanced study aimed at supporting the development of a Master's Thesis or Professional Report for the Master of Science in Architecture degree. This course builds on scholarly documentation, research analysis and contemporary research practice issues. Course Fees: SAP1 $25; STSA $15.

ARC 6413. Sustainable Preservation Technology. (1-4) 3 Credit Hours.
A survey of techniques of preservation: methods of analysis, history of materials, and technology used in old buildings. Includes emphasis on buildings as integrated sets of subsystems and how these are affected by the processes of material deterioration, conservation, and techniques of intervention. Course Fees: SAP1 $25; STSA $15.

ARC 6423. Architectural Conservation Theory. (3-0) 3 Credit Hours.
An advanced study and critical analysis of current design theory and techniques for conservation of historic sites. Course Fees: SAP1 $25; STSA $15.

ARC 6433. Research Methods. (3-0) 3 Credit Hours.
An examination of theories and methods in architectural research. Includes a critical review of theoretical perspectives and considers a range of research methods and techniques used in architectural research. (Formerly COA 6433. Credit cannot be earned for both ARC 6433 and COA 6433.) Course Fees: SAP1 $25; STSA $15.

ARC 6443. International Charters, Guidelines and Historic Site Management. (3-0) 3 Credit Hours.
A survey of international charters, guidelines and laws applicable to the management of cultural heritage sites globally. Includes study of documentation, planning, community engagement, public interpretation, design/conservation treatments, and universal values, as well as UNESCO World Heritage process and purpose. Course Fees: SAP1 $25; STSA $15.

ARC 6453. Cultural Landscape Conservation Theory. (3-0) 3 Credit Hours.
Advanced study and critical analysis of contemporary design theory, methods and values for conservation of cultural landscapes and historic urban landscapes. Course Fees: SAP1 $25; STSA $15.

ARC 6463. Heritage Tourism Planning and Design. (3-0) 3 Credit Hours.
Course introduces the theory, practice and current issues of cultural heritage tourism planning and design as a socio-cultural phenomenon. Topics include motives and behaviors of heritage tourists, resources and attractions, plus public interpretation and management policy. Explores connection of cultural heritage tourism to sustainable community development. Course Fees: SAP1 $25; STSA $15.

ARC 6473. Material Assessment and Conservation. (3-0) 3 Credit Hours.
Prequisite: Consent of instructor. An in-depth study of sustainable preservation technology to include building material and finishes in construction, use, application and installation techniques, methods of evaluation and study of material deterioration, current practices for remediation and replacement. Course Fees: SAP1 $25; STSA $15.

ARC 6493. Architectural Transformations. (3-0) 3 Credit Hours.
Seminar course that considers design strategies and approaches in the redevelopment and redesign of existing buildings and landscapes. Covers topics such as adaptive use, and new design within historic contexts. Course Fees: SAP1 $25; STSA $15.

ARC 6513. Sustainable Tourism Development. (3-0) 3 Credit Hours.
An advanced study of the environmental, economic, and socio-cultural aspects of sustainable tourism development, and the basic concepts and theories of sustainability in tourist destinations. Topics include sense of place, identity, community participation, sustainable design of city spaces and tourist places. Emphasize on sustainable tourism potentials, tourism futures and marketing tourism destinations. Course Fees: SAP1 $25; STSA $15.

ARC 6523. Architecture, Spectacle and Tourism. (3-0) 3 Credit Hours.
Course includes consideration of the relationship between politics, popular culture, and the built environment, tourism consumption, experience and commodification, place image and tourism, sense of place – genius loci, new politics of spectacle, and tourism places, spaces and change. Course Fees: SAP1 $25; STSA $15.

ARC 6816. Study Abroad: Advanced Design Studio. (0-14) 6 Credit Hours.
Prerequisite: Consent of instructor. An advanced architecture design studio associated with a study abroad program. Course Fees: SAP1 $25; STSA $15.

ARC 6823. Study Abroad: Advanced Architectural History/Theory. (3-0) 3 Credit Hours.
Prerequisite: Consent of instructor. An advanced study in architectural history/theory associated with a study abroad program; involves field trips. Course Fees: SAP1 $25; STSA $15.

ARC 6833. Study Abroad: Advanced Architectural Representation. (0-6) 3 Credit Hours.
Prerequisite: Consent of instructor. A graduate level drawing and other media course associated with a study abroad program; involves field trips. Course Fees: SAP1 $25; STSA $15.

ARC 6921. Professional Report. (0-0) 1 Credit Hour.
Prerequisites: ARC 6943 and the approval of Graduate Advisor of Record. The directed architectural research course is offered only for the Master of Science in Architecture students who have completed 9 semester credit hours of ARC 6943 Professional Internship. Credit will be awarded upon completion of the report. Enrollment is required each term in which the report is in progress. Course Fees: SAP1 $25; STSA $5.

ARC 6923. Professional Report. (0-0) 3 Credit Hours.
Prerequisites: ARC 6943 and the approval of Graduate Advisor of Record. The directed architectural research course is offered only for the Master of Science in Architecture students who have completed 9 semester credit hours of ARC 6943 Professional Internship. Credit will be awarded upon completion of the report. Enrollment is required each term in which the report is in progress. Course Fees: SAP1 $25; STSA $15.

ARC 6931. Master’s Project Preparation. (0-4) 1 Credit Hour.
Prerequisites: ARC 5173 and ARC 6126. The course involves the research and preparation of a proposal for an independent design project. The grade report for the course is either “CR” (satisfactory performance) or “NC” (unsatisfactory performance). (Formerly ARC 6933. Credit cannot be earned for both ARC 6931 and ARC 6933.) Course Fees: SAP1 $25; STSA $5.

ARC 6943. Professional Internship. (0-0) 3 Credit Hours.
Prerequisites: Consent of instructor. Supervised professional practice experience with public agencies or private firms. Individual conferences and written reports required. May be repeated for credit, but not more than 3 credit hours will apply to the Master of Architecture degree. With the approval of Graduate Advisor of Record, up to 9 credit hours may be applied to the Master of Science in Architecture degree. Course Fees: SAP1 $25; STSA $15.
**ARC 6951. Independent Study. (0-0) 1 Credit Hour.**
Prerequisites: Permission in writing (form available) of the instructor and the Graduate Advisor of Record. Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours, regardless of discipline, will apply to the Master of Architecture degree or the Master of Science in Architecture degree. 
Course Fees: SAP1 $25; STSA $5.

**ARC 6952. Independent Study. (0-0) 2 Credit Hours.**
Prerequisites: Permission in writing (form available) of the instructor and the Graduate Advisor of Record. Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours, regardless of discipline, will apply to the Master of Architecture degree or the Master of Science in Architecture degree. 
Course Fees: SAP1 $25; STSA $10.

**ARC 6953. Independent Study. (0-0) 3 Credit Hours.**
Prerequisites: Permission in writing (form available) of the instructor and the Graduate Advisor of Record. Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours, regardless of discipline, will apply to the Master of Architecture degree or the Master of Science in Architecture degree. 
Course Fees: SAP1 $25; STSA $15.

**ARC 6961. Comprehensive Examination. (0-0) 1 Credit Hour.**
Prerequisites: Permission of the architecture Graduate Advisor of Record. Independent study course for the purpose of taking the Comprehensive Examination. The grade report for the course is either “CR” (satisfactory performance on the Comprehensive Examination) or “NC” (unsatisfactory performance on the Comprehensive Examination). Credit earned in ARC 6961 may not be counted toward the Master of Science in Architecture degree. May be repeated once. Course Fees: SAP1 $25; STSA $5.

**ARC 6973. Special Topics. (3-0) 3 Credit Hours.**
An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Special Topics courses may be repeated for credit when topics vary, but not more than 6 semester credit hours of ARC 6973 or 12 hours of ARC 6976 will apply to the Master of Architecture degree or the Master of Science in Architecture degree. Course Fees: SAP1 $25; STSA $15.

**ARC 6976. Special Topics. (6-0) 6 Credit Hours.**
An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Special Topics courses may be repeated for credit when topics vary, but not more than 6 semester credit hours of ARC 6973 or 12 hours of ARC 6976 will apply to the Master of Architecture degree or the Master of Science in Architecture degree. Course Fees: SAP1 $25; STSA $30.

**ARC 6981. Master’s Thesis. (0-0) 1 Credit Hour.**
Prerequisites: ARC 6983 and consent of instructor. May be repeated for credit, but not more than 6 hours will apply to the Master of Science in Architecture degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress. 
(Formerly COA 6981.) Course Fees: SAP1 $25; STSA $5.

**ARC 6982. Master’s Thesis. (0-0) 2 Credit Hours.**
Prerequisites: ARC 6323 and consent of instructor. May be repeated for credit, but not more than 6 hours will apply to the Master of Science in Architecture degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress. 
Course Fees: SAP1 $25; STSA $10.

**ARC 6983. Master’s Thesis. (0-0) 3 Credit Hours.**
Prerequisites: ARC 6323 and consent of instructor. May be repeated for credit, but not more than 6 hours will apply to the Master of Science in Architecture degree. Credit will be awarded upon completion of the thesis. Enrollment is required each term in which the thesis is in progress. 
(Formerly COA 6983.) Course Fees: SAP1 $25; STSA $15.

**ARC 6991. Master’s Project. (0-2) 1 Credit Hour.**
Prerequisites: ARC 6996 and consent of instructor. A comprehensive study focusing on an independent design proposal and the complete representation of the project. May be repeated, but not more than 6 hours will apply to the Master of Architecture degree. Credit will be awarded upon completion of the project. Enrollment is required each term in which the project is in progress. 
Course Fees: SAP1 $25; STSA $5.

**ARC 6996. Master’s Project. (0-14) 6 Credit Hours.**
Prerequisite: ARC 6931. A comprehensive study focusing on an independent design proposal and the complete representation of the project. Credit will be awarded upon completion of the project. Enrollment is required each term in which the project is in progress. 
Course Fees: SAP1 $25; STSA $30.

**Construction Science and Management (CSM) Courses**

**CSM 2113. Construction Materials and Methods. (3-0) 3 Credit Hours.**
Prerequisite: Enrollment as an Architecture, Interior Design, or Construction Science and Management major or permission of instructor. Introduction to materials, methods, equipment and sequences of the construction process including structural elements, components, and assemblies. 
Course Fees: SAP1 $25; STSA $15.

**CSM 2143. Construction Materials and Testing. (3-0) 3 Credit Hours.**
Prerequisites: CSM 2113, PHY 1603, and enrollment as a Construction Science and Management major or permission of instructor. Analysis of materials and methods used in the design and construction process with a particular emphasis on quality control, quality assurance, and testing including soils, concrete, steel, masonry, and wood. 
Course Fees: SAP1 $25; STSA $15.

**CSM 2323. Construction Documents. (3-0) 3 Credit Hours.**
Prerequisite: Enrollment as a Construction Science and Management major or permission of instructor. Introduction to construction documents and applicable software for use in communicating building design intentions to field personnel, including an understanding of how to interpret, explain, quantify and use construction documents to bid, construct and manage construction projects. 
Course Fees: SAP1 $25; STSA $15.

**CSM 2333. Construction Culture and History. (3-0) 3 Credit Hours.**
History of construction and building technologies in Western and non-Western cultures. Emphasis on work traditions, graphical illustrations, social and political concerns. 
Course Fees: SAP1 $25; STSA $15.

**CSM 3011. Construction Industry Contemporary Issues. (1-0) 1 Credit Hour.**
Prerequisite: Enrollment as a Construction Science and Management major or permission of instructor. Exploration of various professional options and specialties across the construction industry, professional ethics and introduction to professional societies. Must be taken on a credit/no-credit basis. 
Course Fees: SAP1 $25; STSA $5.
CSM 3113. Construction Surveying. (3-0) 3 Credit Hours.  
Prerequisite: Enrollment as a Construction Science and Management major or permission of instructor. Practical applications of surveying, including distance, grade and angular measurements, surveying equipment and its application to construction layout and control, surveying documentation and field work. (Formerly CSM 3111. Credit cannot be earned for both CSM 3113 and CSM 3111.) Course Fees: SAP1 $25; STSA $15.

CSM 3123. Technical Communication. (3-0) 3 Credit Hours.  
Prerequisites: MAT 1043 or MAT 1053 and enrollment as a Construction Science and Management major or permission of instructor. Visualization, interpretation and communication of graphical geometry in construction design and engineering; graphical analysis of problems; plan reading; computer aided design, and fundamentals of information modeling software; introduction to common quantitative tools in construction. Course Fees: SAP1 $25; STSA $15.

CSM 3143. Structures I. (3-0) 3 Credit Hours.  
Prerequisites: PHY 1603 and enrollment as a Construction Science and Management major or permission of instructor. Introduction to the physical principles that govern classical statics and strengths of materials through the design of concrete, timber, and steel components of structures. Course Fees: SAP1 $25; STSA $15.

CSM 3621. Construction Safety I. (1-0) 1 Credit Hour.  
Prerequisite: Enrollment as a Construction Science and Management major or permission of instructor. Introduction to safety and safety programs, workers' compensation, OSHA organization and structure, safety policies, standards, and record keeping. Emphasis on communication and job-site safety ethics and management. Generally offered: Summer. Course Fees: SAP1 $25; STSA $5.

CSM 4013. Construction Estimating I. (3-0) 3 Credit Hours.  
Prerequisites: CSM 2113 and CSM 3123. Introduction to estimating procedures for buildings related to quantity surveying, cost of materials and labor, life-cycle costs, and applicable software. (Formerly ARC 4013. Credit cannot be earned for both CSM 4013 and ARC 4013.) Generally offered: Spring. Course Fees: SAP1 $25; STSA $15.

CSM 4023. Construction Estimating II. (3-0) 3 Credit Hours.  
Prerequisites: CSM 2143 and CSM 4013. Continuation of CSM 4013 with emphasis on pricing work, subcontracting, and bidding strategies utilizing applicable software. (Formerly ARC 4023. Credit cannot be earned for both CSM 4023 and ARC 4023.) Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $15.

CSM 4143. Structures II. (3-0) 3 Credit Hours.  
Prerequisite: CSM 3143. Analysis and design of structural members in steel, reinforced concrete, reinforced masonry and their relationship to design and construction. Course Fees: SAP1 $25; STSA $15.

CSM 4513. Project Management. (3-0) 3 Credit Hours.  
Prerequisite: CSM 3123. Introduction to project management of the construction process and integration with allied professions. Introduction to applicable software. (Formerly ARC 4613. Credit cannot be earned for both CSM 4513 and ARC 4613.) Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $15.

CSM 4523. Project Planning and Scheduling. (3-0) 3 Credit Hours.  
Prerequisite: CSM 4513. Continuation of CSM 4513 with emphasis on scheduling and project delivery methods utilizing applicable software. (Formerly ARC 4623. Credit cannot be earned for both CSM 4523 and ARC 4623.) (Formerly titled "Construction Management II") Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $15.

CSM 4533. Building Information Modeling for Construction Management. (3-0) 3 Credit Hours.  

CSM 4613. Sustainable Building Practice. (3-0) 3 Credit Hours.  
Prerequisite: Enrollment as a Construction Science and Management major or permission of instructor. Ethics and application of environmental sustainability practice in building construction. Introduction to U.S. Green Building Council LEED program standards, methods, and procedures as applied to construction documents interpretation and construction. Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $15.

CSM 4623. Construction Safety. (3-0) 3 Credit Hours.  
Prerequisite: Enrollment as a Construction Science and Management major or permission of instructor. Development and management of safety programs, worker's compensation, OSHA compliance, safety policies, standards, and record keeping. Course Fees: SAP1 $25; STSA $15.

CSM 4633. Construction Law. (3-0) 3 Credit Hours.  
Prerequisite: Enrollment as a Construction Science and Management major or permission of instructor. Legal and ethical aspects of construction contracts, bonds, insurance, and bidding. Owner, architect, contractor, and subcontractor relationships. Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $15.

CSM 4643. Mechanical, Electrical and Plumbing Systems. (3-0) 3 Credit Hours.  
Prerequisite: CSM 4533 or permission of instructor. Building systems with an emphasis on design, installation and control of heating, ventilation and cooling, plumbing and drainage, electrical, fire and lightning protection systems. Generally offered: Fall. Course Fees: SAP1 $25; STSA $15.

CSM 4713. Construction Capstone. (3-0) 3 Credit Hours.  
Prerequisites: CSM 4023, CSM 4523, CSM 4633, and CSM 4643. Senior capstone project emphasizing integration of the design and construction processes. Project delivery systems, project development, estimating, scheduling and project controls of various types of construction projects. Generally offered: Fall, Spring, Summer. Course Fees: SAP1 $25; STSA $15.

CSM 4911. Independent Study. (0-0) 1 Credit Hour.  
Prerequisites: Permission in writing (form available) of the instructor, the student's advisor, the Department Chair, and the Dean of the College in which the course is offered. Scholarly research under the direction of a faculty member. May be repeated for credit, but not more than 6 semester credit hours of independent study, regardless of discipline, may apply to a bachelor's degree. Generally offered: Fall. Course Fees: SAP1 $25; STSA $5.

CSM 4913. Independent Study. (0-0) 3 Credit Hours.  
Prerequisites: Permission in writing (form available) of the instructor, the student's advisor, the Department Chair, and the Dean of the College in which the course is offered. Scholarly research under the direction of a faculty member. May be repeated for credit, but not more than 6 semester credit hours of independent study, regardless of discipline, may apply to a bachelor's degree. Course Fees: SAP1 $25; STSA $15.
CSM 4916. Independent Study. (0-0) 6 Credit Hours.
Prerequisites: Permission in writing (form available) of the instructor, the student's advisor, the Department Chair, and the Dean of the College in which the course is offered. Scholarly research under the direction of a faculty member. May be repeated for credit, but not more than 6 semester credit hours of independent study, regardless of discipline, may apply to a bachelor's degree. Course Fees: SAP1 $25; STSA $30.

CSM 4931. Summer Internship. (0-0) 1 Credit Hour.
Prerequisites: CSM 2323, CSM 3011, and CSM 3621. This is a full-time, on-site, construction work experience. Supervision by qualified construction manager and intern mentor to prepare the intern for building construction management functions. Instructor prior approval of details for individual work experience required. Must be repeated for credit and taken in consecutive five-week summer sessions. Generally offered: Summer. Course Fees: SAP1 $25; STSA $10.

CSM 4932. Internship. (0-0) 2 Credit Hours.
Prerequisites: CSM 2323, CSM 3011, and CSM 3621. This is a part-time, on-site, construction work experience. Supervision by qualified construction manager and intern mentor to prepare the intern for building construction management functions. Instructor prior approval of details for individual work experience required. Generally offered: Fall, Spring. Course Fees: SAP1 $25; STSA $10.

CSM 4933. Summer Internship. (0-0) 3 Credit Hours.
Prerequisite: CSM 4623. This is a full-time, on-site, construction work experience during summer semester. Supervision by qualified construction manager and intern mentor to prepare the intern for building construction management functions. Instructor prior approval of details for individual work experience required. Course Fees: SAP1 $25; STSA $15.

CSM 4943. Internship I. (0-0) 3 Credit Hours.
Prerequisite: CSM 4623. This is a part-time, on-site, construction work experience during fall or spring semesters. Supervision by qualified construction manager and intern mentor to prepare the intern for building construction management functions. Instructor prior approval of details for individual work experience required. Course Fees: SAP1 $25; STSA $15.

CSM 4946. Internship II. (0-0) 6 Credit Hours.
Prerequisite: CSM 4623. This is a full-time, on-site, construction work experience during fall or spring semesters. Supervision by qualified construction manager and intern mentor to prepare the intern for building construction management functions. Instructor prior approval of details for individual work experience required. Course Fees: SAP1 $25; STSA $30.

CSM 4951. Special Studies in Construction Science and Management. (1-0) 1 Credit Hour.
Prerequisite: Consent of instructor. An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Special Studies may be repeated for credit when the topics vary, but not more than 3 hours for CSM 4951, 6 hours for CSM 4953, or 12 hours for CSM 4956, regardless of discipline, will apply to a bachelor's degree. Course Fees: SAP1 $25; STSA $5.

CSM 4953. Special Studies in Construction Science and Management. (0-6) 3 Credit Hours.
Prerequisite: Consent of instructor. An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Special Studies may be repeated for credit when the topics vary, but not more than 3 hours for CSM 4951, 6 hours for CSM 4953, or 12 hours for CSM 4956, regardless of discipline, will apply to a bachelor's degree. Course Fees: SAP1 $25; STSA $15.

CSM 4956. Special Studies in Construction Science and Management. (0-12) 6 Credit Hours.
Prerequisite: Consent of instructor. An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Special Studies may be repeated for credit when the topics vary, but not more than 3 hours for CSM 4951, 6 hours for CSM 4953, or 12 hours for CSM 4956, regardless of discipline, will apply to a bachelor's degree. Course Fees: SAP1 $25; STSA $30.

CSM 5133. Construction Practice in a Global Setting. (3-0) 3 Credit Hours.
Seminar dealing with national and international business and legal environments in the construction industry. Topics include agreement and delivery options, forms of construction, project procedures and administration, liability, contract documents, and ethics. Course Fees: SAP1 $25; STSA $15.

CSM 5223. Building Information Modeling for Construction Management. (3-0) 3 Credit Hours.
Advanced techniques used in development and management of Building Information Models. Emphasis on constructability and management. Course Fees: SAP1 $25; STSA $15.

CSM 5243. Sustainable Construction and Delivery. (3-0) 3 Credit Hours.
Sustainability principles applied to design, construction and operation of built environment. Emphasis on site management and constructability. Course Fees: SAP1 $25; STSA $15.

CSM 5413. Advanced Topics in Construction Systems. (1-4) 3 Credit Hours.
The management of the construction process pertaining to large, complex, and unique buildings. The management of sustainable construction, adaptive use of existing buildings, and historic preservation projects will be included. (Formerly ARC 5413. Credit cannot be earned for both CSM 5413 and ARC 5413.) Course Fees: SAP1 $25; STSA $15.

CSM 5423. Advanced Topics in Project Controls and Scheduling. (3-0) 3 Credit Hours.
Advanced techniques used in scheduling and planning processes in construction project control, including resource allocations and schedule recovery. Course Fees: SAP1 $25; STSA $15.

CSM 5433. Construction Safety Planning and Management. (3-0) 3 Credit Hours.
Current construction safety and health issues. Development of site-specific plans and methodology to provide hazard reduction on job sites. Course Fees: SAP1 $25; STSA $15.

CSM 5633. Advanced Construction Management. (3-0) 3 Credit Hours.
Prerequisite: Consent of instructor. Organization and integration of construction resources and activities to include consideration of ethical practice, scheduling, methods of construction, project planning and management, cost accounting, and personnel utilization. Course Fees: SAP1 $25; STSA $15.

CSM 6943. Construction Internship. (0-0) 3 Credit Hours.
Prerequisites: Graduate standing, 18 semester credit hours of graduate work, and consent of instructor. Supervised full-time construction work experience with public agencies or private companies. Individual conferences and written reports required. Course Fees: SAP1 $25; STSA $15.
CSM 6951. Independent Study. (0-0) 1 Credit Hour.
Prerequisites: Graduate standing and permission in writing (form available) of the instructor and the Graduate Advisor of Record. Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the degree. Course Fees: SAP1 $25; STSA $5.

CSM 6953. Independent Study. (0-0) 3 Credit Hours.
Prerequisites: Graduate standing and permission in writing (form available) of the instructor and the Graduate Advisor of Record. Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the degree. Course Fees: SAP1 $25; STSA $15.

CSM 6973. Special Topics. (3-0) 3 Credit Hours.
Prerequisite: Graduate standing or consent of instructor. An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Special Topics courses may be repeated for credit when topics vary, but not more than 6 hours of CSM 6973 or 12 hours of CSM 6976 will apply to the degree. Course Fees: SAP1 $25; STSA $15.

CSM 6976. Special Topics. (6-0) 6 Credit Hours.
Prerequisite: Graduate standing or consent of instructor. An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Special Topics courses may be repeated for credit when topics vary, but not more than 6 hours of CSM 6973 or 12 hours of CSM 6976 will apply to the degree. Course Fees: SAP1 $25; STSA $30.