### Department of Civil, Construction, and Environmental Engineering

**Construction (BSConE)**

#### FRESHMAN YEAR

**Fall**

- **15 Hours**
  - CE 121 Intro to CCEE (1)
  - MATH 125 Calculus I MA (4)
  - ENGR 103 Engineering Foundations (3)
  - CH 101 Chemistry I N (4)
  - CH 102 CE 320

**Spring**

- **15 Hours**
  - ENGR 171 Engineering Graphics (1)
  - MATH 126 Calculus II MA (4)
  - PH 105 Gen. Physics w/ Calculus I N (4)
  - ENR 101 English Comp I FC (3)
  - EN 102

#### SOPHOMORE YEAR

**Fall**

- **16 Hours**
  - ENGR 171 MATH 115
  - MATH 227 GES 255
  - PH 105 AEM 201
  - PH 101 MATH 201
  - Approved Natural Science Elective N (4)

**Spring**

- **16 Hours**
  - CE 260 Surveying (2)
  - AEM 201 MATH 125
  - AEM 201 MATH 126
  - PH 106 CE 320

#### Approved Natural Science (N) Electives

<table>
<thead>
<tr>
<th>BSCivE</th>
<th>BSConE &amp; BSArchE</th>
<th>BSEnvE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required: CH 101, PH 105, and either CH 102 or PH 106</td>
<td>Required: CH 101, PH 105, and PH 106</td>
<td>Required: CH 101, CH 102, PH 105, and BSC 114/115</td>
</tr>
<tr>
<td><strong>Approved Electives:</strong> BSC 114/115 Principles of Biology CH 102 Gen Chem II GEC 101 Dynamic Earth GEC 102 Earth Through Time GEC 104 Hazardous Earth GEC 105 Sustainable Earth GEC 101 Atmospheric Processes GEC 102 Earth Surface Processes</td>
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</tr>
</tbody>
</table>

### Advising Notes

- **Hi/SB = History & Social Behavioral**
- **HU/L/FA = Humanities/Literature/Fine Arts**
- **CE 220 and EC 110 are recommended as SB electives**
- **Foreign language is recommended as HU electives**
- **FC = Freshman Composition MA = Mathematics**
- **C = Computer Science**
- **W = Writing**

### Revision

- **2.1 April 17 2017**
### Department of Civil, Construction, and Environmental Engineering:
**Bachelor of Science in Construction Engineering (BSConE)**

#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Fall (16 Hours)</th>
<th>Spring (15 Hours)</th>
<th>Fall (15 Hours)</th>
<th>Senior Year (16 Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 262 AEM 250</td>
<td>CE 331 Structural Engr (3)</td>
<td>CE 418 Engineering Management (3) Spring Only</td>
<td>See List Below</td>
</tr>
<tr>
<td>CE 366</td>
<td>CE 403 CE 462</td>
<td>CE 462 Vertical Construction (3) Spring Only</td>
<td>CE 401 or CE 403 Capstone Project C, W (4)</td>
</tr>
<tr>
<td>CE 366</td>
<td>CE 401 CE 403 CE 461</td>
<td>CE 461 Horizontal Construction (3) Fall Only</td>
<td>See List Below</td>
</tr>
<tr>
<td>CE 366</td>
<td>CE 462 Construction Cost Estimating (3) Spring Only</td>
<td>CE 468 Construction Scheduling (3) Fall Only</td>
<td>Senior Plan of Study Elective* (3)</td>
</tr>
<tr>
<td>CE 401</td>
<td>CE 403 CE 461</td>
<td>COM 123 Public Speaking HU (3)</td>
<td>Senior Plan of Study Elective* (3)</td>
</tr>
<tr>
<td>Engineering Systems Elective$^2$ (3)</td>
<td>Engineering Systems Elective$^2$ (3)</td>
<td></td>
<td>CE 366 GES 255</td>
</tr>
<tr>
<td>HI/SB$^1$ Elective HI/SB (3)</td>
<td>HI/SB$^1$ Elective HI/SB (3)</td>
<td>HU/L/FA$^1$ Elective HU/L/FA (3)</td>
<td>CE 464 Safety Engineering (3) Spring Only</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>HU/L/FA$^1$ Elective HU/L/FA (3)</td>
</tr>
</tbody>
</table>

#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Fall (15 Hours)</th>
<th>Spring (15 Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE 331 Structural Engr (3)</td>
<td>CE 418 Engineering Management (3) Spring Only</td>
</tr>
<tr>
<td>CE 462 Vertical Construction (3) Spring Only</td>
<td>CE 461 Horizontal Construction (3) Fall Only</td>
</tr>
<tr>
<td>CE 462 Construction Cost Estimating (3) Spring Only</td>
<td>COM 123 Public Speaking HU (3)</td>
</tr>
<tr>
<td>CE 468 Construction Scheduling (3) Fall Only</td>
<td>HU/L/FA$^1$ Elective HU/L/FA (3)</td>
</tr>
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</tbody>
</table>

#### Advising Notes

- *Please see the student guide to Senior Plan of Study Electives for a full list of electives and requirements.
- *Advising Notes-Plan of Study*
- All students must submit a Graduation Portfolio. Please see the student guide for further information.
- All students are strongly encouraged to prepare for and take the Fundamentals of Engineering (FE) Exam during their senior year.

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### Senior Design Prequisite and Corequisite Requirements

<table>
<thead>
<tr>
<th>CE 401 Capstone Project - Site Design</th>
<th>CE 403 Capstone Project - Building Design</th>
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</thead>
<tbody>
<tr>
<td>CE 320, CE 340, CE 350, or CE 378 (C- or better required)</td>
<td>CE 331, CE 340, and CE 366 (C- or better required)</td>
</tr>
<tr>
<td>Six (6) credit hours of any 400-level CE courses (C- or better required)</td>
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</tr>
<tr>
<td>Two of the following (may be taken concurrently with CE 401): CE 424, CE 425, CE 442, CE 451, CE 459, CE 475</td>
<td>Two of the following (may be taken concurrently with CE 403): CE 433, CE 434, CE 437, CE 438, CE 439, CE 444, CE 462</td>
</tr>
</tbody>
</table>

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$^*$HI/SB = History & Social and Behavioral Science
$^*$HU/L/FA = Humanities/Literature/Fine Arts

- CE 220 and EC 110 are recommended as SB electives
- Foreign language is recommended as HU electives
- C = Computer Science W = Writing

*Engineering Systems Electives* (take two of the three): AEM 311, ECE 320, ME 216

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Revision 2.1 April 17 2017