Department of Civil, Construction, and Environmental Engineering
Bachelor of Science in Civil (BSCivE)

FRESHMAN YEAR

Fall 15 Hours
- CE 121* Intro to CCEE (1)
- MATH125 Calculus I MA (4)
- ENGR 103 Engineering Foundations (3)
- EN 101 English Comp I FC (3)
- CH 101 Chemistry I N (4)
- CH 102 CE 320

Spring 16 Hours
- ENGR 171 Engineering Graphics (1)
- MATH126 Calculus II MA (4)
- PH 105 Gen. Physics w/ Calculus I N (4)
- EN 102 English Comp II FC (3)
- HI/SB¹ Elective HI/SB (3)

SOPHOMORE YEAR

Fall 16 Hours
- ENGR 171 CE 260 Surveying (2)
- MATH115 MATH227 GES255 (3)
- EN 101 ENGR 103 CE 350
- MATH126 Calculus III MA (4)
- EN 102 English Comp II FC (3)
- Approved Natural Science Elective N (4)

Spring 16 Hours
- AEM 201 CE 262 Civil & Const Engr Materials (3)
- AEM 250 AEM 201 MATH 126
- AEM 250 Mechanics of Materials (3)
- AEM 264 Dynamics (3)
- AEM 201 MATH 126
- MATH238 CE 378

Approved Natural Science (N) Electives

**Required:** CH 101, PH 105, and either CH 102 or PH 106

**Approved Electives:**
- BSC 114/115 Principles of Biology
- GEO 101 Dynamic Earth
- GEO 102 Earth Through Time
- GEO 104 Hazardous Earth
- GEO 105 Sustainable Earth
- GY 101 Atmospheric Processes
- GY 102 Earth Surface Processes

Note: Natural Science Elective cannot be chemistry (CH) or physics (PH)

**Advising Notes:**
- HI/SB = History & Social Behavioral Science
- HU/FA = Humanities/Literature/Fine Arts
- EC 110 is recommended as SB electives
- Foreign language is recommended as HU electives
- * ENGR 111 or 121 from any UA Engineering Department will meet requirements of CE 121

**KEY**
- Course ##
- Title (Credits)
- Downward Dependencies (course(s) for which this course is a prerequisite)
- Prerequisite(s) (must be taken before)
- C- req'd
- Prerequisite(s) (may be taken concurrently)

Revision 2.3 January 2021
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### JUNIOR YEAR

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<th>Fall</th>
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<tr>
<td>CE 262</td>
<td>AEM 250</td>
<td>CE 331 Structural Engineering</td>
<td>CE 401</td>
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<td>CE 403</td>
<td>CE 101</td>
<td>AEM 311</td>
<td>CE 320 Environmental Engineering</td>
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<td>CE 262</td>
<td>AEM 250</td>
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<td>CE 260</td>
<td>GES 255</td>
<td>CE 350 Transportation Engineering</td>
<td>CE 401</td>
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<td>AEM 311</td>
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<td>CE 378 Water Resources Engineering</td>
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<td>MATH 227</td>
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<td>AEM 311 Fluid Mechanics</td>
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<td>PH 106</td>
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<td>Thermo - dynamics/Thermal Engr</td>
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### Advising Notes - Plan of Study

- Must take at least 2 “D” and no more than 2 “P” electives. Please see the student guide to Senior Plan of Study Electives for a full list of elective and requirements.
- All students are strongly encouraged to prepare for and take the Fundamentals of Engineering (FE) Exam. Department recommends taking after completing all 300 level CE courses (and, if planned after 433 and 434).

### Senior Design Prequisite and Corequisite Requirements

- Prerequisites (C- or greater): CE 340, plus 4 of (CE 320, CE 331, CE 350, CE 366 and CE 378) and a minimum of two (2) 400 level C.E courses
- Co-requisites (C- or greater): (may be taken concurrently with CE 401): 1 of CE (424, 451, 458, 461, or 475) and 1 of CE (424, 425, 433, 434, 458, 459, 461, 462, or 475) + 1 of CE (424, 451, 458, 461, or 475) and 1 of CE (424, 425, 433, 434, 451, 458, 459, 461, 462, or 475)

### Advising Notes

1. HI/SB = History & Social and Behavioral Science
2. HU/L/FA = Humanities/Literature/Fine Arts
3. CE 220 and EC 110 are recommended as SB electives
4. Foreign language is recommended as HU electives
5. C = Computer Science
6. W = Writing

Revision 2.3 January 2021