<table>
<thead>
<tr>
<th>Semester</th>
<th>Civil Engineering</th>
<th>Construction Engineering</th>
<th>Architectural Engineering</th>
<th>Environmental Engineering</th>
</tr>
</thead>
</table>
| First (15 hours) | CE 121 Intro to CCEE (1)  
MATH 125 Calculus I (4)  
ENGR 103 Engrg Foundations (3)  
EN 101 English Composition I (3)  
CH 101 Chemistry I (4) | CE 121 Intro to CCEE (1)  
MATH 125 Calculus I (4)  
ENGR 103 Engrg Foundations (3)  
EN 101 English Composition I (3)  
CH 101 Chemistry I (4) | CE 121 Intro to CCEE (1)  
MATH 125 Calculus I (4)  
ENGR 103 Engrg Foundations (3)  
EN 101 English Composition I (3)  
CH 101 Chemistry I (4) | CE 121 Intro to CCEE (1)  
MATH 125 Calculus I (4)  
ENGR 103 Engrg Foundations (3)  
EN 101 English Composition I (3)  
CH 101 Chemistry I (4) |
| Second (15 hours) | ENGR 171 Engrg Graphics (1)  
MATH 126 Calculus II (4)  
PH 105 Gen Physics w/ Calculus I (4)  
EN 102 English Composition II (3)  
HI/ SB^1 (3) | ENGR 171 Engrg Graphics (1)  
MATH 126 Calculus II (4)  
PH 105 Gen Physics w/ Calculus I (4)  
EN 102 English Composition II (3)  
HI/ SB^1 (3) | ENGR 171 Engrg Graphics (1)  
MATH 126 Calculus II (4)  
PH 105 Gen Physics w/ Calculus I (4)  
EN 102 English Composition II (3)  
HI/ SB^1 (3) | ENGR 171 Engrg Graphics (1)  
MATH 126 Calculus II (4)  
PH 105 Gen Physics w/ Calculus I (4)  
EN 102 English Composition II (3)  
HI/ SB^1 (3) |
| Third (16 hours) | CE 260 Surveying (2)  
AEM 201 Statics (3)  
MATH 227 Calculus III (4)  
GES 255 Engrg Statistics (3)  
Natural Science Elective* (4) | CE 260 Surveying (2)  
AEM 201 Statics (3)  
MATH 227 Calculus III (4)  
GES 255 Engrg Statistics (3)  
Natural Science Elective* (4) | CE 260 Surveying (2)  
AEM 201 Statics (3)  
MATH 227 Calculus III (4)  
GES 255 Engrg Statistics (3)  
Natural Science Elective* (4) | CE 260 Surveying (2)  
AEM 201 Statics (3)  
MATH 227 Calculus III (4)  
GES 255 Engrg Statistics (3)  
Natural Science Elective* (4) |
| Fourth (16 hours) | CE 262 Civil & Const Engrg Mat’ls (3)  
AEM 250 Mechanics of Materials (3)  
AEM 264 Dynamics (3)  
MATH 238 Differential Equations (3)  
CH 102 Gen Chemistry II or PH 106 Gen Phys w/ Calculus II (4) | CE 262 Civil & Const Engrg Mat’ls (3)  
AEM 250 Mechanics of Materials (3)  
AEM 264 Dynamics (3)  
MATH 238 Differential Equations (3)  
PH 106 Gen Phys w/ Calculus II (4) | CE 262 Civil & Const Engrg Mat’ls (3)  
AEM 250 Mechanics of Materials (3)  
AEM 264 Dynamics (3)  
MATH 238 Differential Equations (3)  
PH 106 Gen Phys w/ Calculus II (4) | CE 262 Civil & Const Engrg Mat’ls (3)  
AEM 250 Mechanics of Materials (3)  
AEM 264 Dynamics (3)  
MATH 238 Differential Equations (3)  
CH 102 Gen Chemistry II (4) |
| *Approved Natural Science 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 | BSC 114/115 Principles of Biology  
CH 102 Gen Chemistry II  
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 | BSC 114/115 Principles of Biology  
CH 102 Gen Chemistry II  
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 | 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: Science Elective cannot be chemistry (CH) or physics (PH)
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<tr>
<td>Fifth (15-16 hrs)</td>
<td>CE 331 Structural Engrg (3) CE 340 Geotechnical Engrg (4) CE 350 Transportation Engrg (3) AEM 311 Fluid Mechanics (3) HI/SB1 (3)</td>
<td>CE 331 Structural Engrg (3) CE 340 Geotechnical Engrg (4) CE 366 Construction Engrg (3) Engineering Systems Elective (3) HI/SB1 (3)</td>
<td>CE 331 Structural Engrg (3) CE 366 Construction Engrg (3) AEM 311 Fluid Mechanics (3) ECE 320 Fund of Electrical Engrg (3) HI/SB1 (3)</td>
<td>CE 320 Environmental Engrg (3) BSC 114/115 Principles of Biology (4) AEM 311 Fluid Mechanics (3) COM 123 Public Speaking (3) HI/SB1 (3)</td>
</tr>
<tr>
<td>Sixth (15-16 hrs)</td>
<td>CE 320 Environmental Engrg (3) CE 366 Construction Engrg (3) CE 378 Water Resources Engrg (3) ECE 320 Fund of Elect Engrg or ME 216 Thermal Engrg Survey (3) HI/SB1 (3)</td>
<td>CE 418 Engrg Management (3) CE 462 Vertical Construction (3) CE 463 Constr Cost Estimating (3) Engineering Systems Elective2 (3) HI/SB1 (3)</td>
<td>CE 340 Geotechnical Engrg (4) CE 434 Steel Design I (3) ECE 350 Elec Power &amp; Machines (3) ME 216 Thermal Engrg Survey (3) HI/SB1 (3)</td>
<td>CE 340 Geotechnical Engrg (4) CE 378 Water Resources Engrg (3) CE 425 Air Pollution (3) ME 216 Thermal Engrg Survey (3) HI/SB1 (3)</td>
</tr>
<tr>
<td>Seventh (15 hours)</td>
<td>Senior Plan of Study Elective (3) Senior Plan of Study Elective (3) COM 123 Public Speaking (3)</td>
<td>Senior Plan of Study Elective (3) CE 461 Horizontal Construction (3) CE 468 Construction Scheduling (3) COM 123 Public Speaking (3) HI/L/FA1 (3)</td>
<td>Senior Plan of Study Elective (3) CE 433 Reinforced Concrete I (3) ME 407 Heating Vent &amp; Air Cond (3) COM 123 Public Speaking (3) HI/L/FA1 (3)</td>
<td>Senior Plan of Study Elective (3) Senior Plan of Study Elective (3) CE 424 Water/Waste Treatment (3) CE 475 Hydrology (3) HI/L/FA1 (3)</td>
</tr>
<tr>
<td>Eighth (16 hours)</td>
<td>CE 401 or CE 403 Capstone Proj (4) Senior Plan of Study Elective (3)</td>
<td>CE 401 or CE 403 Capstone Proj (4) Senior Plan of Study Elective (3) CE 464 Safety Engrg (3) HI/L/FA1 (3)</td>
<td>CE 403 Capstone Project – Bldg (4) Senior Plan of Study Elective (3) CE 462 Vertical Construction (3) HI/L/FA1 (3)</td>
<td>CE 401 Capstone Project – Site (4) Senior Plan of Study Elective (3) CE 422 Solid/Hazardous Waste (3) CE 420 Environ Measurements (3) HI/L/FA1 (3)</td>
</tr>
<tr>
<td>Total Hours</td>
<td>124 credit hours</td>
<td>124 credit hours</td>
<td>124 credit hours</td>
<td>125 credit hours</td>
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</tbody>
</table>

Advising Notes

1. Recommendations:
   - CE 220 and EC 110 as an SB
   - Foreign language as an HU
2. Engineering Systems Electives (take two of three):
   - AEM 311
   - ECE 320
   - ME 216

Students are strongly encouraged to take the Fundamentals of Engineering (FE) Exam during their senior year. Please visit [ncees.org/exams/fe-exam/](http://ncees.org/exams/fe-exam/).

Please refer to the University of Alabama catalog for additional degree and core curriculum requirements.
Department of Civil, Construction, and Environmental Engineering

Senior Plan of Study Elective Requirements and Capstone Project Prerequisites

<table>
<thead>
<tr>
<th>Civil Engineering</th>
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<tr>
<td><strong>Senior Plan of Study Elective Requirements</strong></td>
<td><strong>Elective</strong> of Study</td>
<td><strong>Elective</strong> of Study</td>
<td><strong>Elective</strong> of Study</td>
</tr>
<tr>
<td>The six senior plan of study electives must include:</td>
<td>The three senior plan of study electives must include:</td>
<td>Select any three approved senior plan of study electives.</td>
<td></td>
</tr>
<tr>
<td>• At least two Design (D) electives (^{3,4})</td>
<td>• At least one Construction Design (CD) elective (^{3,4})</td>
<td>A full list of approved electives can be found in the Undergraduate Guide to Senior Plan of Study Electives, Senior Design, Licensure, and Graduate School.</td>
<td></td>
</tr>
<tr>
<td>• No more than two Professional Practice (P) electives (^{3,4})</td>
<td>• At least one Project Management (PM) elective (^{3,4})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• No more than four General Technical (G) electives (^{3,4})</td>
<td>• No more than one General Technical (GT) elective (^{3,4})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A full list of approved electives can be found in the Undergraduate Guide to Senior Plan of Study Electives, Senior Design, Licensure, and Graduate School.</td>
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<tr>
<td>3. Students with an overall GPA ≥ 3.0 are encouraged to consider taking 500-level CE courses as senior plan of study electives and 500-level versions of required 400-level courses.</td>
<td>4. Students with an overall GPA ≥ 3.3 are encouraged to apply for the University Scholars (BS/MS) Program. University Scholars may also consider taking 600-level CE course as senior plan of study electives.</td>
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<td></td>
</tr>
</tbody>
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<tr>
<th>CE 401 Capstone Project – Site Design Prerequisites</th>
<th>CE 401 is not permitted for BSArchE</th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>• CE 320, CE 350, and CE 378</td>
<td>• CE 340 and CE 366</td>
<td>• CE 320, CE 340 and CE 378</td>
<td></td>
</tr>
<tr>
<td>• Six (6) credit hours of any 400- or 500-level CE courses</td>
<td>• CE 320, CE 350, or CE 378</td>
<td>• Six (6) credit hours of any 400- or 500-level CE courses</td>
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</tr>
<tr>
<td>• Two of the following (may be taken concurrently): CE 424/524, CE 425/525, CE 442/542, CE 451, CE 459/559, CE 475/575</td>
<td>• Six (6) credit hours of any 400- or 500-level CE courses</td>
<td>• Two of the following (may be taken concurrently): CE 424/524, CE 425/525, CE 442/542, CE 475/575</td>
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<table>
<thead>
<tr>
<th>CE 403 Capstone Project – Building Design Prerequisites</th>
<th>CE 403 is not permitted for BSEnvE</th>
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<tbody>
<tr>
<td>• CE 331, CE 340, and CE 366</td>
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<td>• Six (6) credit hours of any 400- or 500-level CE courses</td>
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<tr>
<td>• Two of the following (may be taken concurrently): CE 433, CE 434, CE 437/537, CE 438/538, CE 439, CE 444/544, CE 462/562, CE 536, CE 543</td>
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