

| 1 Fall  | 1 Spring   | 2 Fall  | 2 Spring   | 3 Fall  | 3 Spring  | 4 Fall   | 4 Spring   |
|---|--|---|--|---|---|--|--|
| *Engr 101 (R)<br>Engineering Orientation                        | CE 170 (2)<br>Graphics for Civil Engineers       | ConE 222 (3)<br>Contr Org & Mgmt of Constr    | ConE 241 (3)<br>Constr Mat & Meth  | ConE 322 <sup>4</sup> (3)<br>Constr Equip & Hvy Constr Meth | ConE 340 <sup>4</sup> (3)<br>Concr & Steel Constr | ConE 422 <sup>4</sup> (3)<br>Constr Estimating       | ConE 487 (3)<br>Constr Engrg Design I                  |
| *CE 160 (3)<br>Eng Prob w/Comp Lab                              | *Math 166 (4)<br>Calculus II                     | CE 111 (3)<br>Fund of Surveying I             | ConE 251 (1)<br>M/E Materials and Methods  | Law Elective (3)<br>ConE 380 or Acct 215                    | ConE 352 (3)<br>Mech Sys in Bldgs                 | ConE 441 <sup>4</sup> (3)<br>Constr Plng, Sch & Cont | ConE 488 (3)<br>Constr Engrg Design II                 |
| *Math 165 (4)<br>Calculus I                                     | *Phys 221 (5)<br>Intro to Classical Physics I    | Stat 105 (3)<br>Statistics for Engineers      | Math 267 <sup>2</sup> (4)<br>Diff Eq w/Laplace OR Math 266 (3)<br>Differential Eqn | EM 378 <sup>4</sup> (3)<br>Mech of Fluids                   | ConE 353 (3)<br>Elec Sys in Bldgs                 | CE 383 (1)<br>Dsgn of PtlnD Cem Concr                | Bus Comm Elective <sup>1</sup> (3)<br>Engr 302/309/314 |
| *Chem 167 (4)<br>Gen Chem for Eng Students                      | *Engr 250 <sup>1</sup> (3)<br>WOVE Communication | Phys 222 (5)<br>Intro to Classical Physics II | EM 274 <sup>4</sup> (3)<br>Statics of Engr   | EM 324 <sup>4</sup> (3)<br>Mech of Matls                    | CE 332 <sup>4</sup> (3)<br>Struc Analysis I       | CE 333 (3)<br>Struc Dsgn Stl I                       | CE 334 (3)<br>Reinf Concr Dsgn I                       |
| *Engr 150 <sup>1</sup> (3)<br>Critical Thinking & Communication | ConE 122 (1)<br>Learning Community               | SSH Elective (3)<br>Econ 101 or 102           | SSH Elective (3)<br>Psych 101/230/280<br>Soc 134                                   | IE 305 (3)<br>Engineering Economic Analysis                 | CE 360 <sup>4</sup> (3)<br>Soils Engrg            | SSH Elective (3)<br>International Perspective        | SSH Elective (3)<br>US Diversity                       |
| ConE 121 (1)<br>Learning Community                              |  |   | Math or Stat Elective <sup>2</sup> (3)   |   | EM 327 (1)<br>Mech of Matls Lab                   | Engrg Topics Elective <sup>3</sup> (2)               |  |
| *Lib 160 (1)<br>Libr Instr                                      |  |   |  |   |   |  |  |
| (16)  | (15)   | (17)  | (16/17)  | (15)  | (16)  | (15)   | (15)   |

**Transfer Grade Requirements:**  
 The department requires a grade of C or better for any transfer credit course that is applied to the degree program.

1) Minimum grade ENGL courses: C in each

\*Denotes Basic Program Course

2) To allow greater flexibility in changing between emphases and to meet ABET requirements, students are encouraged to take Math 267.

**2) Math or Statistics Elective**

Math 265 (4)  
 Math 207 (3)  
 Stat 401 (4)

**3) Engr Topics Electives**

2 Credits Required For Building Emphasis

CE 326 (3)                      ConE 490 (1-3)  
 CE 372 (4)                      EM 345 (3)  
 CE 446 (3)                      EE 314 (3)  
 CE 460 (3)                      MatE 273 (3)  
 Geol 201 (3) Fall only  
 ConE 381A (1) & ConE 481A (1) Fall only  
 Any CE 500-level course (except CE 594A or F).

CE 382 (3cr) may be substituted for CE 383 with the remaining 2 credits to count for Engineering Topic Elective.

**4) Building Emphasis Core Courses**

Building Core Classes Require a MINIMUM Cumulative 2.00 GPA

EM 274 (3)  
 EM 324 (3)  
 ConE 322 (3)  
 EM 378 (3)  
 CE 360 (3)  
 ConE 422 (3)  
 ConE 441 (3)  
 CE 332 (3)  
 ConE 340 (3)  
 27

**Total credits required, undergraduate program:**  
**Building Emphasis 125**