

Civil Engineering - General Program

2019-2020 Catalog

129 Total Credits

First Year

Semester 1

3 CE 160 (Engr Problem Solving)
4 Chem 177 (General Chemistry I)
1 Chem 177L (Gen Chemistry Lab)
3 Engl 150 (Critical Think Comm)
4 Math 165 (Calculus I)
1 Lib 160 (Library)
R Engr 101 (Engr Orientation)

0 CE 120 (optional-Learning Community)

16 Total Credits

Semester 2

1 CE 105 (Intro to Profession)
3 CE 111 (Surveying I)
2 CE 170 (Civil Engr Graphics)
4 Math 166 (Calculus II)
5 Phys 221 (Classical Physics I)
3 SP CM 212 (Public Speaking)
0 CE 120 (optional-Learning Community)

18 Total Credits

Sophomore Year

Semester 3

3 Engl 250 (WOVE Comp)
3 CE 274 (Statics)
3 Chem 178 (General Chemistry II)*
1 Chem 178L (Gen Chemistry II Lab)*
4 Math 265 (Calculus III)
3 Geol 201 (Geology for Engineers)

17 Total Credits

Semester 4

3 CE 206 (Economic Analysis)
3 EM 324 (Mechanics of Materials)
3 EM 378 (Mechanics of Fluids)
3 CE 306 (Project Management)
3 Math 266 (Differential Equations)
3 Statistics Elective

18 Total Credits

Junior Year

Semester 5

3 CE 332 (Structural Analysis I)
3 CE 360 (Geotechnical Engineering)
1 EM 327 (Mechanics of Materials Lab)
3 ME 345 (Dynamics)
3 Technical Communication Elective
3 CE 355 (Transportation Engr)

16 Total Credits

Semester 6

3 CE 334 (Concrete Design I)**
3 CE 372 (Engr Hydro & Hydraulics)
3 CE 382 (Design of Concretes)
3 CE 326 (Environmental Engr)
3 Engineering Topics Elective
3 SSH Elective

18 Total Credits

Senior Year

Semester 7

3 CE 333 (Steel Design I)**
3 Engineering Topics Elective
2 Engineering Topics Elective
3 SSH Elective (Intntl. Perspective)
3 SSH Elective (US Diversity)

14 Total Credits

Semester 8

R CE 403 (Outcomes Assessment)
3 CE 485 (CE Design)
3 Engineering Topics Elective
3 CE Design Elective
3 SSH Elective

12 Total Credits

Shading indicates Basic Program courses

* Phys 222 may be substituted for Chem 178/178L

** CE 460 may be substituted for CE 333 or CE 334