

Civil Engineering – Environmental Specialization

2018-2019 Catalog

130 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 SSH Elective
0 CE 120 (optional-Learning Community)

18 Total Credits

Sophomore Year

Semester 3

3 Engl 250 (WOVE Comp)
3 EM 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 CE 306 (Project Management)
3 EM 324 (Mechanics of Materials)
3 Chem 231 (Organic Chemistry)
1 Chem 231L (Organic Chem Lab)
3 Math 266 (Differential Equations)

16 Total Credits

Junior Year

Semester 5

3 CE 332 (Structural Analysis I)
3 CE 355 (Transportation Engineering)
3 CE 382 (Design of Concretes)
3 EM 378 (Mechanics of Fluids)
1 EM 327 (Mechanics of Materials Lab)
3 Statistics Elective

16 Total Credits

Semester 6

3 CE 326 (Environmental Engr)
3 CE 334 (Concrete Design I)
3 CE 360 Geotechnical Engineering)
3 CE 372 (Engr Hydro & Hydraulics)
3 Biol 173 or 211 (Biology)
3 Technical Communication Elective

18 Total Credits

Senior Year

Semester 7

3 CE 420 (Environmental Engr Chem)
3 CE 421 (Envr Biotechnology)
2 Micro 201 (General Microbiology)
3 SSH Elective (Intl. Perspective)
3 CE Design Elective
3 Sp Cm 212 (Public Speaking)

17 Total Credits

Semester 8

R CE 403 (Outcomes Assessment)
3 CE 428 (Treatment Plant Design)
3 CE 485 (CE Design I)
3 SSH Elective
3 SSH Elective (US Diversity)

12 Total Credits

Shading indicates Basic Program courses