

# Civil Engineering – Environmental Specialization

2015-2016 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

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 EM 324 (Mechanics of Materials)
- 3 Chem 231 (Organic Chemistry)
- 1 Chem 231L (Organic Chem Lab)
- 3 Math 266 (Differential Equations)
- 3 Statistics Elective

16 Total Credits

## Junior Year

### Semester 5

- 3 CE 326 (Environmental Engr)
- 3 CE 332 (Structural Analysis I)
- 3 CE 360 (Geotechnical Engineering)
- 3 EM 378 (Mechanics of Fluids)
- 1 EM 327 (Mechanics of Materials Lab)
- 3 Technical Communication Elective

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 306 (Project Management)
- 3 Biol 173 or 211 (Biology)
- 3 CE 355 (Transportation Engr)

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
- 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

12 Total Credits

Shading indicates Basic Program courses