

# Civil Engineering – Environmental Specialization

2017-2018 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 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*