

Civil Engineering – Environmental Specialization

2019-2020 Catalog

130 Total Credits

First Year

Semester 1	Semester 2
3 CE 160 (Engr Problem Solving)	1 CE 105 (Intro to Profession)
4 Chem 177 (General Chemistry I)	3 CE 111 (Surveying I)
1 Chem 177L (Gen Chemistry Lab)	2 CE 170 (Civil Engr Graphics)
3 Engl 150 (Critical Think Comm)	4 Math 166 (Calculus II)
4 Math 165 (Calculus I)	5 Phys 221 (Classical Physics I)
1 Lib 160 (Library)	3 SSH Elective
R Engr 101 (Engr Orientation)	0 CE 120 (optional-Learning Community)
0 CE 120 (optional-Learning Community)	
<i>16 Total Credits</i>	<i>18 Total Credits</i>

Sophomore Year

Semester 3	Semester 4
3 Engl 250 (WOVE Comp)	3 CE 206 (Economic Analysis)
3 EM 274 (Statics)	3 CE 306 (Project Management)
3 Chem 178 (General Chemistry II)	3 EM 324 (Mechanics of Materials)
1 Chem 178L (Gen Chemistry II Lab)	3 Chem 231 (Organic Chemistry)
4 Math 265 (Calculus III)	1 Chem 231L (Organic Chem Lab)
3 Geol 201 (Geology for Engineers)	3 Math 266 (Differential Equations)
<i>17 Total Credits</i>	<i>16 Total Credits</i>

Junior Year

Semester 5	Semester 6
3 CE 332 (Structural Analysis I)	3 CE 326 (Environmental Engr)
3 CE 355 (Transportation Engineering)	3 CE 334 (Concrete Design I)
3 CE 382 (Design of Concretes)	3 CE 360 Geotechnical Engineering)
3 EM 378 (Mechanics of Fluids)	3 CE 372 (Engr Hydro & Hydraulics)
1 EM 327 (Mechanics of Materials Lab)	3 Biol 251 (Biology)
3 Statistics Elective	3 Technical Communication Elective
<i>16 Total Credits</i>	<i>18 Total Credits</i>

Senior Year

Semester 7	Semester 8
3 CE 420 (Environmental Engr Chem)	R CE 403 (Outcomes Assessment)
3 CE 421 (Envr Biotechnology)	3 CE 428 (Treatment Plant Design)
2 Micro 201 (General Microbiology)	3 CE 485 (CE Design I)
3 SSH Elective (Intl. Perspective)	3 SSH Elective
3 CE Design Elective	3 SSH Elective (US Diversity)
3 Sp Cm 212 (Public Speaking)	
<i>17 Total Credits</i>	<i>12 Total Credits</i>

Shading indicates Basic Program courses