

Civil Engineering – Environmental Option

2024-2025 Catalog
132 Total Credits

Freshman Year

Semester 1

- 3 CE 1600 (Engineering Problems)
- 1 CE 1200 (Learning Community)
- 4 CHEM 1770 (General Chemistry I)
- 1 CHEM 1770L (Gen Chemistry Lab)
- 3 ENGL 1500 (Critical Think Comm)
- 4 MATH 1650 (Calculus I)
- R ENGR 1010 (Engr Orientation)
- 1 LIB 1600 (College Level Research)

Semester 2

- 3 BIOL 2510 (Biological Processes in Env)
- 2 CE 1700 (Graphics for CE)
- 4 MATH 1660 (Calculus II)
- 4 PHYS 2310 (Classical Physics I)
- 1 PHYS 2310L (Physics I Lab)
- 3 SSH Elective

17 Total Credits

17 Total Credits

Sophomore Year

Semester 3

- 3 CE 2740 (Statics)
- 3 CHEM 1780 (General Chemistry II)
- 1 CHEM 1780L (Gen Chemistry II Lab)
- 4 MATH 2650 (Calculus III)
- 3 GEOL 2010 (Geology for Engineers)
- 3 ENGL 2500 (WOVE Comp)

Semester 4

- 3 CE 1110 (Geomatics)
- 3 CE 2060 (Economic Analysis)
- 3 CE 3060 (Project Management)
- 3 EM 3240 (Mechanics of Materials)
- 3 MATH 2660 (Elem. Differential Equations)
- 3 Statistics Elective

17 Total Credits

18 Total Credits

Junior Year

Semester 5

- 3 CE 3320 (Structural Analysis I)
- 3 CE 3550 (Transportation Engineering)
- 3 CE 3820 (Design of Concretes)
- 3 ABE 3780 (Mechanics of Fluids)
- 1 ABE 3780L (Mechanics of Fluids Lab)
- 1 EM 3270 (Mechanics of Materials Lab)
- 3 CHEM 2310 (Elem Organic Chem)
- 1 CHEM 2310L (Elem Organic Chem Lab)

Semester 6

- 3 CE 3260 (Environmental Engineering)
- 3 CE 3340 (Concrete Design I)
- 3 CE 3720 (Hydrology & Hydraulics)
- 2 MICRO 2010 (Intro to Microbiology)
- 3 SPCM 2120 (Public Speaking)
- 3 Technical Communication Elective

17 Total Credits

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Senior Year

Semester 7

- 3 ENVE 4260 (EnvE Science)
- 4 CE 3600 (Geotechnical Engineering)
- 3 CE Design Elective
- 3 US Cultures & Communities Elective
- 3 International Perspective Elective

Semester 8

- R CE 4030 (Program Assessment)
- 3 ENVE 4270 (EnvE Systems)
- 3 CE 4280 (Treatment Plant Design)
- 3 CE 4850 (CE Design)
- 3 SSH Elective

16 Total Credits

12 Total Credits