



Degree Map

CATALOG YEAR: 2024-2025

Degree: BSCE

MAJOR: Civil Engineering

Concentration: Environmental Engineering

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and course schedule. This document provides general direction.

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall Total Credit Hours: 16 (17)		Semester: Spring Total Credit Hours: 17	
ENGL 1010 Writing Composition I	3	ENGL 1020 Writing Composition II	3
CEE 1020 Connections to CEE ¹	1	Humanities/Fine Arts Elective	3
MATH 1910 Calculus I	4	MATH 1920 Calculus II	4
CHEM 1110 Chemistry I	4	CHEM 1120 Chemistry II	4
ENGR 1110 Engineering Graphics	2	Social/Behavioral Science Elective	3
Humanities/Fine Arts Elective	3		
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall Total Credit Hours: 17		Semester: Spring Total Credit Hours: 17	
ENGL 2130, 2230, or 2330 Literature	3	COMM 2025 or PC 2500 Communication	3
MATH 2110 Calculus III	4	MATH 2120 Differential Equations	3
PHYS 2110 Physics I	4	CEE 3600 Surveying	3
CEE 2110 Statics	3	CEE 3110 Mechanics of Materials	3
Social/Behavioral Science Elective	3	ME 2330 Dynamics	3
		CEE (ENGR) 3710 Engineering Economics	2
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 16		Semester: Spring Total Credit Hours: 17 or 18	
CEE 3500 Construction Engineering	3	CEE (ENGR) 3720 or MATH 3470 Statistics	2 or 3
CEE 3413 Environmental Engineering	3	CHE 3010 or ME 3210 Thermodynamics	3
CEE 3610 Transportation Engineering	3	GEOL 3210 Geology for Engineers	3
CEE 3415 or ME 3720 Fluid Mechanics	3	CEE 3420 Hydraulics	3
CEE 3320 Structural Mechanics	3	CEE 4310 or CEE 4320	3
CEE 3430 Environmental Engineering Lab	1	CEE 3030 Civil Engineering Materials	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 15 or 16		Semester: Spring Total Credit Hours: 13	
CEE 4800 Geotechnical Engineering	3	CEE 4950 Senior Design	3
CEE 4920 Professionalism and Ethics	1	CEE Lab Elective ³	1
CEE 4940 Fundamentals of CEE	0	CEE Elective ⁴	3
ENGR 1120 or ECE 2850	2 or 3	Environmental Engineering Elective ²	3
Environmental Engineering Elective ²	3	Environmental Engineering Elective ²	3
Environmental Engineering Elective ²	3		
Environmental Engineering Elective ²	3		

Note:

- Optional course for first semester freshman only
- Environmental Engineering Elective: CEE 4400-4499, ESS 3000, GEOG 4510, GEOG 4511, GEOG 4620, GEOG 4650, or GEOL 4711; At least 3 of 5 courses must be CEE courses
- CEE Lab Elective: CEE 3040 or CEE 3120; CEE 3040 preferred
- CEE Elective: Any 4000 level CEE course