



Degree Map

CATALOG YEAR: 2024-2025

Degree: BSCE

MAJOR: Civil Engineering
Concentration: Geological 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	Social/Behavioral Science Elective	3
CHEM 1110 Chemistry I	4	MATH 1920 Calculus II	4
ENGR 1110 Engineering Graphics	2	CHEM 1120 Chemistry II	4
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	
Social/Behavioral Science Elective	3	COMM 2025 or PC 2500 Communication	3
ENGL 2130, 2230, or 2330 Literature	3	MATH 2120 Differential Equations	3
MATH 2110 Calculus III	4	CEE 3413 Environmental Engineering	3
PHYS 2110 Physics I	4	CEE 3110 Mechanics of Materials	3
CEE 2110 Statics	3	ME 2330 Dynamics	3
		CEE (ENGR) 3710 Engineering Economics	2
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 16	
CEE 3600 Surveying	3	CEE 3610 Transportation Engineering	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 3030 Civil Engineering Materials	3	CEE 3040 Geotechnical Engineering Lab	1
CEE 3500 Construction Engineering	3	CEE 4800 Geotechnical Engineering	3
		GEOL 3210 Geology for Engineers	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 15 or 16		Semester: Spring Total Credit Hours: 15 or 16	
CEE 4920 Professionalism and Ethics	1	CEE 4950 Senior Design	3
CEE 4940 Fundamentals of CEE	0	CEE Lab Elective ⁵	1
CEE (ENGR) 3720 or MATH 3470 Statistics	2 or 3	Technical Elective ³	2 or 3
GEOL Elective ²	4	CEE Elective ⁴	3
GEOL Elective ²	4	GEOL Elective ²	3
GEOL Elective ²	4	CEE 4810 Foundation Engineering	3

Notes:

- Optional course for first semester freshman only
- GEOL Elective: GEOL 3120, GEOL 3230, GEOL 3310, GEOL 4110, GEOL 4120, GEOL 4150, GEOL 4210, GEOL 4300, GEOL 4711. Minimum of 15 credits GEOL courses required (exclusive of GEOL 3210).
- Technical Elective: ENGR 1120, ECE 2850, ME 3210, or CHE 3010
- CEE Elective: Any 4000 level CEE course
- CEE Lab Elective: CEE 3120 or CEE 3430; CEE 3430 preferred