



## Degree Map

**CATALOG YEAR:** 2025-2026

**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.
<b>FIRST YEAR</b>			
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 <sup>1</sup>	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.
<b>SOPHOMORE YEAR</b>			
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.
<b>JUNIOR YEAR</b>			
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.
<b>SENIOR YEAR</b>			
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 <sup>5</sup>	1
CEE (ENGR) 3720 or MATH 3470 Statistics	2 or 3	Technical Elective <sup>3</sup>	2 or 3
GEOL Elective <sup>2</sup>	4	CEE Elective <sup>4</sup>	3
GEOL Elective <sup>2</sup>	4	GEOL Elective <sup>2</sup>	3
GEOL Elective <sup>2</sup>	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