



Degree Map

CATALOG YEAR: 2023-2024

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 or 18	
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	MATH 1920 Calculus II	4
CHEM 1110 Chemistry I	4	CHEM 1120 Chemistry II	4
ENGR 1110 Engineering Graphics	2	GEOL 1040 or GEOL 3210	3 or 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: 18	
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 3413 Environmental Engineering	3
CEE 2110 Statics	3	CEE 3110 Mechanics of Materials	3
Social/Behavioral Science Elective	3	ME 2330 Dynamics	3
		GEOL 2500 Geological Fundamentals	3
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>JUNIOR YEAR</b>			
Semester: Fall Total Credit Hours: 17		Semester: Spring Total Credit Hours: 16	
CEE (ENGR) 3710 Engineering Economics	2	CEE 3500 Construction Engineering	3
CEE 3600 Surveying	3	CEE 3610 Transportation Engineering	3
CEE 3415 or ME 3720	3	CEE 3420 Hydraulics	3
CEE 3320 Structural Mechanics	3	CEE 3040 Geotechnical Engineering Lab	1
CEE 3030 Civil Engineering Materials	3	CEE 4800 Geotechnical Engineering	3
GEOL Elective <sup>2</sup>	3	GEOL Elective <sup>2</sup>	3
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>SENIOR YEAR</b>			
Semester: Fall Total Credit Hours: 12		Semester: Spring Total Credit Hours: 15	
CEE 4310 or CEE 4320	3	CEE (ENGR) 3720 or MATH 3470 Statistics	2
CEE 4920 Professionalism and Ethics	1	CEE 4810 Foundation Engineering	3
CEE 4940 Fundamentals of CEE	0	CEE 4950 Senior Design	3
Technical Elective <sup>3</sup>	2	CEE Lab Elective <sup>5</sup>	1
CEE Elective <sup>4</sup>	3	CEE Elective <sup>4</sup>	3
GEOL Elective <sup>2</sup>	3	Social/Behavioral Science Elective	3

Notes:

- Optional course for first semester freshman only
- GEOL Elective: GEOL 3110, 3120, 3200, 3230, 3750, or any 4000-level GEOL course
- 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