



Degree Map

CATALOG YEAR: 2024-2025

Degree: BSCE

MAJOR: Civil 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 ²	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 or 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 3600 Surveying	3
CEE 2110 Statics	3	CEE 3110 Mechanics of Materials	3
Social/Behavioral Science Elective	3	ME 2330 Dynamics	3
		CEE (ENGR) 3720 or MATH 3470 Statistics	2 or 3
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 17		Semester: Spring Total Credit Hours: 16	
CEE (ENGR) 3710 Engineering Economics	2	CEE 3500 Construction Engineering	3
CEE 3413 Environmental Engineering	3	CEE Lab Elective ³	1
CEE 3610 Transportation Engineering	3	GEOLOG 3210 Geology for Engineers	3
CEE 3415 or ME 3720 Fluid Mechanics	3	CEE 3420 Hydraulics	3
CEE 3320 Structural Mechanics	3	CEE 4310 Steel Design	3
CEE 3030 Civil Engineering Materials	3	CEE 4800 Geotechnical Engineering	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 14		Semester: Spring Total Credit Hours: 14 or 15	
CEE 4920 Professionalism and Ethics	1	CEE 4950 Senior Design	3
CEE 4940 Fundamentals of CEE	0	CEE Elective ⁶	3
CEE Lab Elective ³	1	CEE Elective ⁶	3
CEE Elective ⁶	3	CEE Sequence ⁷	3
CEE Sequence ⁷	3	Technical Elective ⁵	2 or 3
CEE 4320 Concrete Design	3		
MATH Elective ⁴	3		

Notes:

1. Optional course for first semester freshman only
2. CHEM 1120 or PHYS 2120. CHEM 1120 is preferred.
3. CEE Lab Elective: CEE 3040 (P: CEE 3030), CEE 3120 (P: CEE 3110), or CEE 3430 (C: CEE 3413)
4. MATH Elective: MATH 2010, MATH 3810, MATH 4210, MATH 4510
5. Technical Elective: ENGR 1120, ECE 2850, ME 3210, or CHE 3010 (fall only)
6. CEE Elective: Any 4000 level CEE course
7. Approved CEE Sequence
 - a. Construction Engineering & Management: CEE 4510 (ENGR 4510), CEE 4520, CEE 4530, CEE 4535, CEE 4540, CEE 4550, CEE 4560
 - b. Environmental Engineering & Water Resources: CEE 4410, CEE 4420, CEE 4430, CEE 4440, CEE 4450, CEE 4460, CEE 4490
 - c. Structural Mechanics: CEE 4130, CEE 4170, CEE 4190
 - d. Structural & Geotechnical Engineering: CEE 4340, CEE 4350, CEE 4360, CEE 4370, CEE 4380, CEE 4390, CEE 4550, CEE 4810, CEE 4820
 - e. Transportation Engineering: CEE 4610, CEE 4630, CEE 4640, CEE 4660