



Degree Map

CATALOG YEAR: 2021-2022

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: 17		Semester: Spring Total Credit Hours: 18	
CEE 1020 Connections to CEE ¹	1	MATH 1920 Calculus II	4
ENGR 1110 Engineering Graphics	2	PHYS 2110 Physics I	4
MATH 1910 Calculus I	4	CHEM 1120 Chemistry II ²	4
CHEM 1110 Chemistry I	4	ENGL 1020 English Composition II	3
ENGL 1010 English Composition I	3	Social/Behavioral Science Elective	3
Humanities/Fine Arts Elective	3		
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall Total Credit Hours: 16		Semester: Spring Total Credit Hours: 17	
CEE 2110 Statics	3	COMM 2025 or PC 2500 Communication	3
MATH 2110 Calculus III	4	CEE 3110 Mechanics of Materials	3
ENGL 2130, 2235, or 2330 Literature	3	CEE 3600 Surveying	3
Social/Behavioral Science Elective	3	CEE (ENGR) 3710 Engineering Economics	2
Humanities/Fine Arts Elective	3	ME 2330 Dynamics	3
		MATH 2120 Differential Equations	3
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 16		Semester: Spring Total Credit Hours: 17 or 18	
CEE 3320 Structural Mechanics	3	CEE 3030 Civil Engineering Materials	3
CEE 3413 Environmental Engineering	3	CEE 3420 Hydraulics	3
CEE 3415 or ME 3720 Fluid Mechanics	3	CEE (ENGR) 3720 or MATH 3470 Statistics	2 or 3
CEE 3500 Construction Engineering	3	CEE 4310 Steel Design	3
CEE 3610 Transportation Engineering	3	GEOL 3210 Geology for Engineers	3
CEE Lab Elective ³	1	MATH Elective ⁴	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 15 or 16		Semester: Spring Total Credit Hours: 13	
CEE 4320 Concrete Design	3	CEE 4950 Senior Design	3
CEE 4800 Geotechnical Engineering	3	CEE Elective ⁶	3
CEE 4920 Professionalism and Ethics	1	CEE Elective ⁶	3
CEE 4940 Fundamentals of CEE	0	CEE Lab Elective ³	1
CEE Elective ⁶	3	CEE Sequence ⁷	3
CEE Sequence ⁷	3		
Technical Elective ⁵	2 or 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. Structural Mechanics: CEE 4130, CEE 4160, CEE 4190
 - b. Structural Engineering: CEE 4130, CEE 4350, CEE 4360, CEE 4370, CEE 4380, CEE 4810
 - c. Environmental Engineering: CEE 4410, CEE 4420, CEE 4430, CEE 4440, CEE 4450
 - d. Transportation Engineering: CEE 4600, CEE 4610, CEE 4630, CEE 4640, CEE 4660