



Degree Map

CATALOG YEAR: 2024-2025

Degree: BSCE

MAJOR: Civil Engineering

Concentration: Construction Engineering and Management

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	MATH 1920 Calculus II	4
CHEM 1110 Chemistry I	4	CHEM 1120 Chemistry II <sup>2</sup>	4
ENGR 1110 Engineering Graphics	2	Social/Behavioral Science Elective	3
Humanities/Fine Arts Elective	3		
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>SOPHOMORE YEAR</b>			
Semester: Fall Total Credit Hours: 16		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 3110 Mechanics of Materials	3
CEE 2110 Statics	3	CEE 3500 Construction Engineering	3
CEE (ENGR) 3710 Engineering Economics	2	CEE 3600 Surveying	3
		ME 2330 Dynamics	3
Course	Cr. Hrs.	Course	Cr. Hrs.
<b>JUNIOR YEAR</b>			
Semester: Fall Total Credit Hours: 16		Semester: Spring Total Credit Hours: 15	
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 4310 Steel Design	3
CEE 3610 Transportation Engineering	3	GEOL 3210 Geology for Engineers	3
CEE Lab Elective <sup>3</sup>	1	CEM Elective <sup>4</sup>	3
BMGT 3510 Management and Org Behavior	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 (ENGR) 3720 or MATH 3470 Statistics	2 or 3	CEE 4950 Senior Design	3
CEE 4320 Concrete Design	3	CEE Lab Elective <sup>3</sup>	1
CEE 4800 Geotechnical Engineering	3	CEM Elective <sup>4</sup>	3
CEE 4920 Professionalism and Ethics	1	CEM Elective <sup>4</sup>	3
CEE 4940 Fundamentals of CEE	0	Social/Behavioral Science Elective	3
CEM Elective <sup>4</sup>	3	Technical Elective <sup>5</sup>	2 or 3
CEM Elective <sup>4</sup>	3		

Note:

- Optional course for first semester freshman only
- Students select either CHEM 1120 or PHYS 2120; CHEM 1120 preferred
- CEE Lab Elective: CEE 3040 (P: CEE 3030), CEE 3120 (P: CEE 3110), or CEE 3430 (C: CEE 3413)
- Construction Engineering and Management Elective: CEE 4500-4599, ENGR (CEE) 4510, ACCT 3720, BMGT 3630, BMGT 4410, BMGT 4520. At least 3 of 5 courses must be CEE (ENGR) courses.
- Technical Elective: ENGR 1120, ECE 2850, ME 3210, or CHE 3010 (fall only)