

CIVIL ENGINEERING (CE)

Program of Study — Catalog Year 2020-2021

	Fall Semester				Spring Semester				
	Terms Offered	Course	Course Title	Hrs.	Terms Offered	Course	Course Title	Hrs.	
Freshman	F, Sp, Su	CH 115/R/116	General Chemistry I and Lab	4	F, Sp, Su	PH 221/R/L	General Physics I and Lab	4	
	F	EGR 110 ¹	Introduction to Engineering I	1	F, Sp, Su	CH 117/R/118	General Chemistry II and Lab	4	
	F, Sp, Su	EH 101	English Composition I	3	Sp	EGR 111 ¹	Introduction to Engineering II	1	
	F, Sp, Su	MA 125	Calculus I	4	F, Sp, Su	EH 102	English Composition II	3	
	F, Sp, Su	ME 102	Engineering Graphics	2	F, Sp, Su	MA 126	Calculus II	4	
	Total Credits				14	Total Credits			
Sophomore	F, Sp, Su	CE 210	Statics	3	Sp	CE 200	Engineering Geology	2	
	F, Sp, Su	PH 222/R/L	General Physics II and Lab	4	F, Sp	CE 220	Mechanics of Solids	3	
	F, Sp	EGR 265 ²	Math Tools for Engineering Problem Solving	4	F, Sp, Su	CE 221	Mechanics of Solids Lab	1	
	F, Sp, Su	EGR 150	Computer Methods in Engineering	3	Sp	CE 236/L	Environmental Engineering and Lab	3	
	F, Sp, Su	HFA/SBS ³	Area II/IV Core Curriculum	3	F, Sp, Su	ME 215/R	Dynamics	3	
	Total Credits				17	Total Credits			
Junior	F	CE 230/L	Plane Surveying and Lab	3	F, Sp	CE 222	Materials Lab	1	
	F	CE 332/L	Soils Engineering and Lab	4	Sp	CE 345	Transportation Engineering	3	
	F	CE 337	Hydraulics	3	Sp,Su	CE 360	Structural Analysis	3	
	F	CE 344	Civil Engineering Analysis	3	Sp	CE 395	Engineering Economics	3	
	F, Sp	ME 251	Introduction to Thermal Sciences	2	Sp	CE 430	Water Supply & Drainage Design	3	
	F	CE 371 ⁴	Professional Preparation	2	F, Sp, Su	HFA/SBS ³	Area II/IV Core Curriculum	3	
Total Credits				17	Total Credits				16
Senior	F	CE 455	Reinforced Concrete Design	3	Sp	CE 426	Foundation Engineering	3	
	F	CE 497	Construction Engineering Management	3	Sp	CE 450	Structural Steel Design	3	
	F, Sp, Su	CE 4XX ²	Civil Engineering Elective (400 Level)	3	F, Sp	CE 498/499	Capstone Design Project and Lab	3	
	F, Sp, Su	CE 4XX	Civil Engineering Elective (400 Level)	3	F, Sp, Su	CE 4XX	Civil Engineering Elective (400 Level)	3	
	F, Sp, Su	HFA/SBS ³	Area II/IV Core Curriculum	3	F, Sp, Su	HFA/SBS ³	Area II/IV Core Curriculum	3	
	F, Sp, Su	HFA/SBS ³	Area II/IV Core Curriculum	3					
Total Credits				18	Total Credits				15

¹ Transfer students substitute EGR 200 (2hrs) for EGR 110/111

² May substitute MA 227 and MA 252 for EGR 265 and one CE elective

³ Please refer to the Core Curriculum as specified for engineering majors

⁴ or BUS 350