Bachelor of Science in Civil Engineering -- 129 Credits

JCE-BSE (RG 7273) Effective August 2025

Worlds of Knowledge (RQ 3787)

Complete 1 course in each of the following Worlds of Knowledge.

Aesthetic and Creative Expression					
Subject	Number	Course Title	CR	Satisfied/Te	
			3		

Global History & Culture						
Subject	Number	Course Title	CR	Satisfied/Terr		
			3			

Societies & Civics					
Subject	Number	Course Title	CR	Satisfied/Term	
			3		

Follow-up Courses					
Subject	Number	Course Title	CR	Satisfie	ed/Term
			3		

Freshman Year Curriculum (RG 7273)

Freshman Year Curriculum - 1st Term (RQ 3423)				
	the following Courses	CR	Satisfie	ed/Term
Chem 0150	General Chem 1 for Engr	3		
EngCmp 000	5 Composition 1	3		
Engr 0017	Intro Engr Analysis	3		
Engr 0081	Freshman Engr Sem 1	0		
Math 0221	Analytic Geom & Calc 1	4		
Phys 0150	Physics 1	4		
Requireme	nt Satisfied	17		

Freshman Year Curriculum - 2nd Term (RQ 3424)				
Complete the following Courses		CR	Satisfied/Term	
Chem 0151	General Chem 2 for Engr	3		
Engr 0018	Intro Engr Computing	3		
Engr 0082	Freshman Engr Sem 2	0		
Math 0231	Analytic Geom & Calc 2	4		
Phys 0152	Physics 2	4		
Requirement Satisfied		14		

Sophmore Year Curriculum (RG 7273)

Soph Year Curriculum - 3rd Term (RQ 3425)					
Complete	Complete the following Courses			ed/Term	
CE 1503	Intro Environmental Engr	3			
CE 1085	Dept Seminar	0			
Engr 0020	Prob & Stats for Engr 1	4			
Engr 0132	Statics	3			
Math 0241	Analytic Geom & Calc 3	4			
Requirement Satisfied		14			

Soph Year Curriculum - 4rd Term (RQ 3426)				
Complete	the following Courses	CR	Satisfied/Term	
CE 0110	Computer Meth in CE	3		
CE 1105	Materials of Construction	3		
CE 1085	Dept Seminar	0		
Engr 1103	Engineering Economics	3		
Engr 0142	Mechanics of Materials	3		
Engr 0152	Dynamics	3		
Math 1271	Differential Equations	3		
Requireme	ent Satisfied	18		

Junior Year Curriculum (RG 7273)

Junior Year Curriculum - 5th Term (RQ 3427)				
Complet	Complete the following Courses		Satisfied/Tern	
CE 1220	Survey & Land Development	3		
CE 1330	Intro to Structural Analy	3		
CE 1402	Fluid Mechanics	3		
CE 1703	Transportation Engr	3		
CE 1811	Prin of Soil Mechanics	3		
CE 1085	Dept Seminar	0		
Requirem	Requirement Satisfied			

Junior Year Curriculum - 6th Term (RQ 3436)				
Complete the following Courses		CR	Satisfied/Terr	
CE 1412	Hydro & Water Resrc	3		
CE 1610	Engr & Sustainable Dev	3		
CE 1085	Dept Seminar	0		
Requirement Satisfied		6		

Senior Year Curriculum (RG 7273)

Senior Ye	ear Curriculum - 7th Term (RQ	3445)		
Comple	te the following Courses	CR	Satisfie	d/Term
CE 1085	Dept Seminar	0		
CE 1200	Construction Management	3		
CE 1195	CE Professional Practice	3		
Commrc 00	052 Public Speaking	3		
Requiren	nent Satisfied	9		

Senior Year Curriculum - 8th Term (RQ 3446)					
Complete the following Courses			Satisfi	ed/Term	
CE 1085	Dept Seminar	0			
CE 1199	CE Senior Design Project	3			
Requirem	Requirement Satisfied				

Electives

Science Electives (RQ 3767)						
Complete one of the following courses		CR	Satisfied/Tern			
Biol 0080	Life Sciences	3				
Biol 0083	Human Ecology	3				
Biol 0110	General Biology 1	3				
Biol 0950	Anatomy and Physiology 1	3				
Geo 0010	Principles of Astronomy	4				
Geo 0083	Physical Oceanography	3				
Geo 0090	Earthquakes and Volcanos	3				
Geo 0091	Prehistoric Life	3				
Geo 0092	Our National Parks	3				
Geo 0220	Fossil Fuels and Economic Geology	3				
Requirem	ent Satisfied	3				

Civil Eng	ineering Design Electives (RQ 37	(68)			
Complete	omplete 4 of the following Electives.				
Must con	plete a minimum of 3 different d	lesign	areas.		
Structure	s	CR			
CE 1340	Concrete Design	3			
CE 1347	Bridge Engineering	3			
CE 1341	Steel Design	3			
Environm	nental/Water Resources				
CE 1420	Hydraulic Design	3			
CE 1510	Water Supply & Waste Water	3			
Transpor	tation				
CE 1714	Pavement Design & Mgmt	3			
CE 1730	Highway Survey & Design	3			
Geotechr	nical				
CE 1814	Slopes, Seepage & Earth Structure	3			
CE 1821	Foundation Engineering	3			
Requirement Satisfied		12			

IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

Updated 3/24/25

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Engineerin Complete c CE 1198 CHE 0214 EE 0031 EE 0445	e an additional Design Elective or CE 1198 Ind Study (3 cr) g Electives one of the following courses (Preq mi Independent Study (max 3 cr)	ust be	met)	
Engineerin Complete o CE 1198 CHE 0214 EE 0031 EE 0445	or CE 1198 Ind Study (3 cr) g Electives one of the following courses (Preq mi	ust be	met)	
Engineerin Complete of CE 1198 CHE 0214 EE 0031 EE 0445	g Electives one of the following courses (Preq mi Independent Study (max 3 cr)	ust be	met)	
Complete of CE 1198 CHE 0214 EE 0031 EE 0445	one of the following courses (Preq mi Independent Study (max 3 cr)		met)	
CE 1198 CHE 0214 EE 0031 EE 0445	Independent Study (max 3 cr)		met)	
CHE 0214 EE 0031 EE 0445		3		
EE 0031 EE 0445	Intro to Chemical Product Design			
EE 0445		3		
	Linear Circuits and Systems 1	3		
	Prgmg & Intro to Data Structures	3		
Engr 0022	Matrerial Structure and Properties	3		
Engr 1115	Engineering Leadership	3		
Geo 1550	Geographic Information Systems*	4		
Math 1178	Operations Research*	3		
Math 1179	Mathamtical Modeling	3		
Math 1181	Linear Algebra	3		
MRKT 1675	UAS (Drone) Tech 101 - Video Marketing	3		
ME 0024	Intro to Mechanical Engr Design	3		
ME 0052	Thermodynamics 1	3		
ME 1173	Finite Element Methods*	3		
	al CE Design Elective	3		
Any Additional CE Elective		3		
Civil Engineering Co-Op Requirement Satisfied		3		_

^{*} Consent Required