

Civil and Environmental Engineering Curriculum

2024-2025 Catalog

Course	Course	Cr	Prerequisite (co-requisite)	Sem	Gr	Course	Course	Cr	Prerequisite (co-requisite)	Sem	Gr
	Fall Semester						Spring Semester				
Freshman											
ENGL 101	Rhet & Comp	3	ACT >18 or HS GPA>3			ENGL 102	Composition & Lit.	3	ENGL 101 w/C grade or better		
CHEM 107	General Chemistry I	3	MATH 105 or ACT Math>23			CHEM 108	General Chemistry II	3	CHEM 107 w/C grade or better		
MATH 270	Calculus I	4	ACT Math> 28 and MATH 110			CHEM 115	Chem Lab	2	(CHEM 108) w/C grade or better		
ENGT 103	CAD	3	MATH 105 with C grade or better			MATH 301	Calculus II	4	MATH 270 w/C grade or better		
CIVE 101	Intro to civil	1	(Math 109 or higher)			PHYS 201	Physics I	4	MATH 270 w/C grade, (MATH301)		
UNIV 100	Orientation	3									
	Total	17					Total	16			
Sophomore											
MATH 302	Calculus III	4	MATH 301 w/C grade			MATH 350	Differential Eqns.	3	MATH 301 w/C or better		
ENGR 211	Statics	3	PHYS 201 & MATH 301 w/C grade			ENGR 219	Mech. Of Mat'ls	3	ENGR 211 w/C grade or better		
CIVE 225	Surveying	3	MATH 110, (ENGT 103) w/C grade			ENGR 304	Fluid Mechanics	3	ENGR 211 w/C grade (ENGR 313)		
PHYS 202	Phys II	4	PHYS 201, (MATH 302) w/C grade			ENGR 313	Dynamics	3	ENGR 211 w/C grade or better		
PHYS 215	PHYS Lab	1	PHYS 201 with C grade			Social Sc.	Social Science elect.	3	CIVE approved list		
ART	Art elective	3	CIVE approved list								
	Total	18					Total	15			
Junior											
HIST	History Elective	3	CIVE approved list			CIVE 322	Environ Engr. I	3	CHEM 108, CEHM 115, ENGR 304, ENGR 313, w/C or better		
CIVE 332	Structural Mech.	3	ENGR 219 w/C grade			CIVE 328	Geotechnical Engr.	4	ENGR 219, ENGR 304 & ENGR 313 w/C or better		
BIO SC	BIO SC. Elective	3	CIVE approved list			CIVE 345	Transportation Engr.	3	CIVE 225 (STAT 325/427) w/C		
CMCN	CMCN elective.	3	CIVE approved list			CIVE 429G	Hydrology	3	ENGR 304, ENGR 313		
STAT 325 or 427	Statistics	3	ACT math >28 or MATH 109 or SAT MATH >630			CIVE 426	Steel Design	3	CIVE 332 w/C grade		
LIT Elect.	Literature Elective	3	CIVE approved list								
	Total	18					Total	16			
Senior											
CIVE 422G	Environmental Eng II	3	CIVE 322 w/C grade			CIVE 442	Civil engr. Design	3	Senior Standing, (ECON 430)		
CIVE 434	Hydraulics	3	ENGR 304 & ENGR 313 w/C grade			CIVE 444	Seminar	1	Senior Standing		
CIVE 438G	Foundations	3	CIVE 328 & ENGR313 w/C grade			CIVE 4xx	CIVE approved Elect	6	Departmental Approval		
CIVE 450G	Hwy Engr.	3	CIVE 225 & CIVE 328 w/C grades			CIVE 480	Construction Engr.	3	CIVE 328, (ECON 430) w/C grade		
ECON 430G	Ind. Econ	3	MATH 301 & ENGR 219 w/C								
CIVE 427	Con. Design	3	CIVE 332 w/C or better								
	Total	18					Total	13			

Note: A minimum grade of "C" is required for all engineering, math and sciences courses for graduation purposes.