

CIVIL ENGINEERING

Curriculum Guide Fall 2021

	STUDENT						NAID #				ADVISOR							
	Fall						Spring				General Education (Gen Ed) Electives							
	Course			Crs	Grade	Gen Ed	Course			Crs	Grade	Gen Ed						
Freshman (<27 crs)	CHEM	121 (120)	General Chem I	3		S	CE	112	Computer/Apps in Civil Engr	1								
	CHEM	121L (130)	General Chem I Lab	1		L	CHEM	122 (121)	General Chem II	3			S					
	~ENGL	110 (111)	College Comp I	4		C	CHEM	122L (131)	General Chem II Lab	1								
	ENGL	120	College Comp II	3		C	COMM	110	Fund Public Speaking	3				C				
	MATH	165 (160)	Calculus I	4		R	MATH	166 (161)	Calculus II	4								
	CE	111	Intro Civil Engr	1			ME	221	Engr Mechanics I	3								
							Gen Ed Elective		See side bar	3				A				
				16						18								
Sophomore (27-59 crs)	CE	204	Surveying	3			IME	460	Eval Engr Data	3								
	CE	212	CE Graphic Comm	3			MATH	266 (261)	Intro Diff Equations	3								
	GEOL	105 (120)	Physical Geology	3		S/G I	ME	223	Mech of Materials	3								
	MATH	128 (228)	Intro Linear Algebra	1			PHYS	252 (253)	Univ Physics II	4								
	MATH	259 (260)	Multivariate Calc	3			Gen Ed Elective		See side bar	2				W				
	ME	222	Engr Mechanics II	3														
				16						15								
Junior (60 - 89 crs)	CE	309	Fluid Mechanics	3			CE	303	Civil Engr Materials	2								
	CE	316	Soil Mechanics	3			CE	303 L	Civil Engr Materials Lab	1								
	ENGL	321	Writing/Tech Prof	3		C	CE	343	Structural Engineering Analysis	4								
	ENGR	402	Engr Ethics & Soc Resp	1			CE	370	Intro Environ Engr	3								
	ME	350	Therm & Heat Transfer	3			CE	371	Environ Engr Lab	1								
	ENGR 311		See side bar	3		A	CE	408	Water Resource & Supply	3								
				16			CE	418	Transportation Engr	4								
Senior (90+ crs)	CE	310	Fluid Mechanics Lab	1			CE	483	Contracts & Specs	3								
	CE	404	Reinforced Concrete	3			CE	489	Senior Design	3								
	CE	444	Structural Steel Design	3			IME	440	Engr Economy	2								
	ENGR 312		See side bar	3		B	Technical Elective		See side bar	3								
	Gen Ed Elective		See side bar	3		B	Technical Elective		See side bar	3								
	Technical Elective		See side bar	2			Technical Elective		See side bar	2								
				17						16								

University general education categories, credit requirements, and approved course offerings are printed as a centerfold in the registration schedule for each term. Many categories have been integrated into the Civil Engineering program with specific course requirements (left). For the remaining categories (below), students select approved courses of their choice (unless otherwise noted).

Gen Ed	Course	Crs	Grade
A	ENGR 311 required	3	
A		3	
B	ENGR 312 required	3	
B		3	
D ■	(double-count with A or B above)	3	
G ●	(met with Geol 105)	3	
W		2	

NOTE:
One of Gen Ed's A or B (above) should be cultural diversity ■

A or B		3	
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Technical Electives
A list of approved courses is provided by the department.

Area	Course	Design	Crs	Grade
Minimum of 3		6	12	

Gen Ed Categories:

A - Humanities/Fine Arts	G - Global Perspectives ●
B - Social/Behavioral Sciences	L - Co-requisite Lab
C - Communication	R - Quantitative Reasoning
D - Cultural Diversity ■	S - Science & Technology
	W - Wellness

All civil engineering students are required to have no more than one 'D' in ME 221, ME 222, ME 223 courses and 'C' and above grades in Math 165,166,128,259, 266 before enrolling in any civil engineering courses that utilize these courses as prerequisites. Students with 'D' grades in ME 221, ME 222, and ME 223 are required to repeat the course when they enroll the CE courses that require these courses as prerequisites.

Notes: No grades less than "C" accepted in ME 221, 222, 223 or MATH courses.
Transfer students are required to take either ENGR 311 or 312 regardless of Gen Ed completion

Key: "T" indicated requirement satisfied with transfer credits. "IP" indicates a course currently in progress () indicates old course numbers.
"NR" indicates that it is not required

TOTAL CREDITS	132
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Students with an ACT sub-test score of 18+ (or SAT of 430+) are advised to enroll in ENGL 120.
A passing grade will be awarded for 110 by completing 120 with a "C" or better.

Last Revised 03/04/21