

CIVIL ENGINEERING

Curriculum Guide Spring 2024

	STUDENT					NAID #				ADVISOR			
	Fall					Spring				General Education (Gen Ed) Electives			
	Course	Crs	Grade	Gen Ed	Course	Crs	Grade	Gen Ed	Gen Ed	Course	Crs	Grade	
Freshman (<27 crs)	CHEM	121	General Chem I	3		S	CE	112	Computer/Apps in Civil Engr	1			
	CHEM	121L	General Chem I Lab	1		S	CHEM	122	General Chem II	3		S	
	-ENGL	110	College Comp I	3		C	CHEM	122L	General Chem II Lab	1			
	ENGL	120	College Comp II	3		C	COMM	110	Fund Public Speaking	3		C	
	MATH	165	Calculus I	4		R	MATH	166	Calculus II	4			
	CE	111	Intro Civil Engr	1			ME	221	Engr Mechanics I	3			
							ENGR 311	See side bar	3		A		
			15						18				
Sophomore (27-59 crs)	CE	204	Surveying	3			IME	460	Eval Engr Data	3			
	CE	212	CE Graphic Comm	3			MATH	266	Intro Diff Equations	3			
	GEOL	105	Physical Geology	3		S	ME	223	Mech of Materials	3			
	MATH	128 (129)	Intro Linear Algebra	1			PHYS	252	Univ Physics II	4			
	MATH	259 (265)	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			
	ME	350	Therm & Heat Transfer	3			CE	370	Intro Environ Engr	3			
	ENGR 327	See side bar		3		A/D	CE	371	Environ Engr Lab	1			
							CE	408	Water Resource & Supply	3			
						CE	418	Transportation Engr	4				
			15						18				
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			
	Gen Ed Elective	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				
<p>All civil engineering students are required to have 'C' and above grades in Math 165,166,128,259, 266 before enrolling in any civil engineering courses that utilize these courses as prerequisites.</p> <p>Notes: No grades less than "C" accepted in MATH courses.</p> <p>Key: "T" indicated requirement satisfied with transfer credits. "IP" indicates a course currently in progress () indicates old course numbers.</p> <p>"NR" indicates that it is not required</p>													
TOTAL CREDITS											130		
<p>Students with an ACT sub-test score of 18+ (or SAT of 480+) are advised to enroll in ENGL 120. A passing grade will be awarded for 110 by completing 120 with a "C" or better.</p>													
Last Revised 03/23/2023													

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	ENGR 327 required	3	
B		3	
B		3	
D ■	(covered by ENGR 327)	3	
G ●	(double-count with A or B above)	3	
W		2	

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

A or B		3	
A or B		3	

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	R - Quantitative Reasoning
C - Communication	S - Science & Technology
D - Cultural Diversity ■	W - Wellness