CIVIL ENGINEERING

Curriculum Guide Fall 2021

STUDENT **NAID #** **ADVISOR**

	Fall						Spring					
	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		
							CE	**418**	Transportation Engr	4		
				16						**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		
	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		
	Technical Elective		See side bar	2								
				17						**16**		

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

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 03/02/21

General Education (Gen Ed) Electives

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	

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

TOTAL CREDITS 132