

# Environmental Engineering

Curriculum Guide Fall 2021

STUDENT \_\_\_\_\_

NAID # \_\_\_\_\_

ADVISOR \_\_\_\_\_

	Fall				Spring			
	Course	Crs	Grade	Gen Ed	Course	Crs	Grade	Gen Ed
Freshman (<27 crs)	ENVE 111	Intro. Env. Eng.	1		ENVE 211	Anal. and Design for Env. Engr.	1	
	CHEM 121	General Chem I	3	S	CHEM 122	General Chem II	3	S
	CHEM 121L	General Chem I Lab	1	L	CHEM 122L	General Chem II Lab	1	
	-ENGL 110	College Comp I	4	C	COMM 110	Fund Public Speaking	3	C
	ENGL 120	College Comp II	3	C	MATH 166	Calculus II	4	
	MATH 165	Calculus I	4	R	ME 221	Engr Mechanics I	3	
				Gen Ed Elective		See side bar	3	A
			16				18	
Sophomore (27-59 crs)	ENVE 250	Fund. Of Env. Engr.	3		ENVE 350	Micro. Prin. For Env. Eng.	3	
	CE 212	CE Graphic Comm	3		CE 309	Fluid Mechanics	3	
	CHEM 240	Survey of Organic Chem.	3		IME 460	Envl. Engr. Data	3	
	GEOL 105	Physical Geology	3	S/G I	MATH 128	Intro. Linear Algebra	1	
	MATH 259	Multivariate Calc	3		MATH 266	Differential Eqs.	3	
	ME 222	Engr Mechanics II	3		ME 223	Mech of Materials	3	
				Gen Ed Elective		See side bar	2	W
			18				18	
Junior (60 - 89 crs)	ENVE 360	Chemistry for Env. Eng.	3		ENVE 412	Unit Ops. & Processes	2	
	ENVE 370	Sustainability Engr.	3		ENVE 450	Env. Chemistry Lab.	1	
	CE 310	Fluid Mechanics Lab	1		ENVE 460	Env. Fate and Trans.	3	
	CE 316	Soil Mechanics	3		CE 408	Water Resource & Supply	3	
	ENGL 321	Writing in the Tech. Prof.	3	C	ENGR 311	See side bar	3	A
	PHYS 252	University Physics II	4		ENGR 402	Engr. Ethics & Soc. Resp.	1	
				Technical Elective		See side bar	3	
			17				16	
Senior (90 + crs)	ENVE 488	Senior Design I	2		ENVE 489	Senior Design II	2	
	CE 410	Water & Wastew. Treat.	3		CE 472	Solid/Hazardous Waste	3	
	CE 477	Applied Hydrology	3		CE 473	Air Pollution	3	
	IME 440	Engr. Economy	2		ENGR 312	See side bar	3	B
	Technical Elective	See side bar	3		Technical Elective	See side bar	3	
Gen Ed Elective	See side bar	3	B					
			16				14	

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 Environmental 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	<b>ENGR 311 required</b>	3	
A		3	
B	<b>ENGR 312 required</b>	3	
B		3	
D ■	(double-count with A or B above)	3	
G ●	(met with Geol 105)	3	
W		2	
<b>NOTE:</b>			
<i>One of Gen Ed's A or B (above) should be cultural diversity ■</i>			
A or B		3	
Technical Electives			
<i>A list of approved courses is provided by the department.</i>			
Category	Course	Crs	Grade
Min. of 2 in Cat. 1		9	

- 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

All ENVE students are required to have no more than one "D" in ME 221, 222, 223 courses and a "C" or above in MATH 165, 166, 259, 266, 128 before enrolling in an CE/ENVE course that utilizes these courses as prerequisites. Students with a "D" in ME 221, 222, 223 are required to repeat the course when they enroll for the ENVE/CE course that requires 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

<b>TOTAL CREDITS</b>	<b>133</b>
----------------------	------------

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.