

Updated 3/12/2020

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR			
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	
Intro. to the Environmental Engineering Profession ENVE 111 (1)	Computer Aided Drafting in Civil Engineering CE 113 (2)		Engineering Statics ME 211 (3) (MATH 241†, PHYS 131 or 141)	Noise & Vibration Control ENVE 309 (3) (MATH 241 and PHYS 132; ENGL 149†)	Air Quality Engineering ENVE 325 (4) (CHEM 125 or 128)	Environmental Fluid Mechanics ENVE 264 (4) (MATH 241; PHYS 132; ME 211)	Water Chemistry & Water Quality Measurements ENVE 434 (4) (CHEM 125 or 129; ENVE 330 or 331)	Mass Transfer Operations ENVE 421 (4) (ENVE 325; 331; 304 or ME 302; ENVE 264 or ME 341)	Groundwater Hydraulics and Hydrology CE 434 (4) (CE 336)		Industrial Pollution Prevention ENVE 450 (4) (ENVE 331)	
	General Physics IA PHYS 141 (4) (MATH 141 w/min C-; MATH 142† or 182†) [Area B Elective]	General Physics II PHYS 132 (4) (PHYS 131 or HNRS 131 or PHYS 141)	General Physics III PHYS 133 (4) (PHYS 131 or HNRS 131 or PHYS 141, and MATH 142. Recom: MATH 241)	Mechanics of Materials I CE 204 (3) (ME 211)	Mechanics of Materials II CE 207 (2) (CE 204)	Programming Applications in Engineering CE 251 (2) (CE 113; MATH 244; CE 204 or CE 208†)	Process Thermodynamics ENVE 304 (3) (CHEM 125 or 129; ENVE 331)	Water & Wastewater Treatment Design ENVE 438 (3) (ENVE 331 and ME 341 or ENVE 264)	Choose 12 units from the following: Air Pollution Control ENVE 411 (4)* OR Sustainable Solid Waste Eng ENVE 439 (4)* OR Envir Engineering of Energy ENVE 480 (4)* Intro Haz Waste Mgmt ENVE 436 (4)*			Envir Health & Safety ENVE 455 (4)* OR Bioremediation Eng ENVE 443 (4)*
Calculus I MATH 141 (4) * [B4]	Calculus II MATH 142 (4) (MATH 141 w/min C-) [B4]	Calculus III MATH 143 (4) (MATH 142 w/min C-) [Area B Elective]	Calculus IV MATH 241 (4) (MATH 143)	Fundamentals of Env. Engineering ENVE 331 (4) (CHEM 125 or 128; MATH 242 or 244†) Choose one: MCRO 221 (4)* or MCRO 224 (5)* [B2]		Statistical Methods for Engineers STAT 312 (4) (MATH 142) [Upper-Division B]	Water Resources Engineering CE 336 (4) (ME 341 or ENVE 264; CE 337†) Hydraulics Laboratory CE 337 (1) (ENVE 264 or ME 341; CE 336†)		Senior Project Design Laboratory I & II ENVE 466 (2) (ENVE 438; CE 336; Sr Standing; CE 465†)		ENVE 467 (2) (ENVE 466)	Approved Technical Elective (4)¹ ***
General Chemistry for Physical Science & Engineering I CHEM 124 (4) * [B1 & B3]	General Chemistry for Physical Science & Engineering II CHEM 125 (4) (CHEM 124, or AP Chemistry score of 5)	General Chemistry for Physical Science & Engineering III CHEM 126 (4) (CHEM 125 w/min C-)	Survey of Organic Chemistry CHEM 312 (5) (CHEM 125 or 128)	Linear Analysis I MATH 244 (4) (MATH 143)			Geotechnical Engineering CE 381 (4) (CE 207 or 208; ME 341 or ENVE 264) Air Quality Measurements ENVE 426 (3) (ENVE 325; CHEM 212/312; ENVE 264 or ME 341; STAT 312; ENGL 149)		Civil Engineering Professional Practice CE 465 (1) (Sr Standing and Instr. consent)	Approved Technical Elective (4)¹ ***		
Expository Writing ENGL 133/134 (4)** [A2]									Approved Technical Elective (2)¹ ***			
Oral Communication COMS 101/102 (4)** [A1]												
	Technical Writing for Engineers ENGL 149 (4) [A3] (Completion of GE A2 with a C- or better, Recommended: Completion of GE A1) Can be taken anytime between Winter of Freshman and Winter of Sophomore Years								Graduation Writing Requirement GWR* (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)			
13	18	16	16	18	15	14	16	18	17	14	16	
										TOTAL:	190-191	

Notes:

MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

* Refer to current catalog for prerequisites.

** One course from each of the following GE areas must be completed: A1, A2, C1, C2, Lower-Division C Elective, Upper-Division C, D1, D2, Area D Elective, E, Upper-Division C should be taken only after Junior standing is reached (90 units).

Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, Upper-Division D, or E.

*** To be selected in consultation with your academic advisor.

† Course can be taken previously or concurrently.

¹ 10 units Technical Electives. See catalog for course options. Consult advisor.

Legend:

Course Title	
Course # (Units)	Major (86)
(Prerequisite)	Support (64-65)
[GE Area]	General Ed. (40)