

Major Map

BULLETIN YEAR: 2021-2022 **Degree:** BS Env. E

MAJOR: Environmental Engineering

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and a department's tentative plans for scheduling courses. This document provides general direction. For more specific advice and up to date schedules, it is expected that students will regularly discuss their plans of study with academic advisors and monitor the current class schedules as students are responsible for ensuring that all requirements for graduation have been met.

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall Total Credit Hours: 15-18		Semester: Spring Total Credit Hours: 14	
MTH 132 Calculus I (UP Group II-B) ^{3,4}	4	MTH 133 Calculus II	4
EGR 120 Intro. to Engineering	3	PHY 146QR University Physics II	4
PHY 145QR University Physics I	4	TAI 170 (UP Group I-B) ^{2,4}	3
PHY 175 University Physics Laboratory I	1	EGR 200 Comp Aided Problem Solving	3
GEL 130 Earth Processes (UP Group II-B) ^{3,4}	3		
ENG 101 Freshman Composition (if needed)	0-3		
	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 18	
MTH 232 Linear Algebra & Diff. Eqns.	3	MTH 233 Calculus III	4
BIO 105QR Introductory Quantitative Biology (UP Group II-B) ^{3,4}	3	EGR 202 Environmental Microbiology for Engineers	3
General Studies (UP WI Group I-A) ⁴	3	EGR 203 Water Chemistry	3
General Studies (UP WI Group III-A) ⁴	3	EGR 251 Engineering Statics	3
ENG 201 Intermediate Composition	3	CHM 141 General Chemistry for Engineering Students	4
		CHM 142 Introduction to Chemistry Lab	1
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall Total Credit Hours: 15		Semester: Spring Total Credit Hours: 15	
EGR 253 Engineering Dynamics	3	EGR 300 Engineering Economic Analysis	3
EGR 304 Biological Processes in Env. Eng.	3	EGR 358 Fluid Mechanics	3
EGR 305 Physicochemical Processes in Env. Eng.	3	EGR 306 Environmental Engineering Laboratory	3
EGR 356 Thermodynamics	3	Environmental Engineering Elective ¹	3
STA 392 Probability and Stat. for Eng.	3	General Studies (UP Group III-B) ⁴	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall Total Credit Hours: 18		Semester: Spring Total Credit Hours: 15	
EGR 407 Water and Wastewater Engineering	3	EGR 409 Solid and Hazardous Waste Eng.	3
EGR 408 Water Resources Engineering	3	EGR 410 Pollution Prevention	3
EGR 489WI Senior Design I	3	EGR 499WI Senior Design II	3
Environmental Engineering Elective ¹	3	Environmental Engineering Elective ¹	3
General Studies (UP Group IV-A) ⁴	3	General Studies (UP Group IV-C) ⁴	3
General Studies (UP Group IV-B) ⁴	3		

131 hours minimum required for graduation

40 hours 300 level or above required

¹ **Electives (9 hours):** Choose from: BIO 240, ECO 301, EGR 411, 412, ENS 307, 323, 401, 503WI, ENV 210QR, GEL 380WI, HSC 352, SEP 300QR, SOC 370/ANT 370.

² TAI 170 completes the U.P. Group I-B and the Oral English Competency requirement, which must be fulfilled before 56 hours.

³ Counts for both the General Education Program and Mathematics and Science categories

⁴ These courses can be taken in any semester.