

**COMBINED MAJOR IN ENVIRONMENTAL ENGINEERING AND HEALTH SCIENCE**  
**BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING**  
**CURRICULUM OUTLINE - CLASS OF 2025**

*Sample Only – Actual Curriculum Sequence May Deviate from Sample*

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	*CHEM1151 General Chem. for Engrs. 4	GE1502 Cornerstone Eng'g. 2 4	MATH2321 Calculus 3 for Engrs. 4	Vacation
	CHEM1153 Recitation for CHEM1151 0	MATH1342 Calculus 2 for Engrs. 4	PHTH1260 The American Healthcare System 4	
	ENGW1111 First-Year Writing 4	PHTH2210 Foundations of Biostatistics 4		
	GE1000 Intro. to Eng. 1	*PHYS1151 Physics 1 for Engrs. 3		
	GE1501 Cornerstone Eng'g. 1 4	PHYS1152 Physics 1 Lab 1		
*MATH1341 Calculus 1 for Engrs. 4	PHYS1153 ILS for PHYS1151 1			
Year 2 AA	CIVE2221 Statics and Solid Mechanics 4	CIVE2331 Fluid Mechanics and Hydraulics 4	MATH2341 Diff. Eq./Lin. Alg. 4	Co-op
	CIVE2222 Recitation for CIVE2221 0	CIVE2335 Environmental Eng'g. Chemistry 4	PHTH2350 Community and Public Health 4	
	CIVE2260 Materials for the Built Environment 4	CIVE3430 Eng'g Microbiology and Ecology 4		
	CIVE2261 Lab for 2260 1	ENCP2000 Intro. to Eng'g. Co-op 1		
	CIVE2334 Environmental Engineering: Principles, Technology, and Sustainability 4	PHTH2414 Environmental Health 4		
PHTH2515 Healthcare Policy and Admin 4				
Year 3 AA	Co-op	CIVE3435 Environmental Pollution Fate and Transport 4	GE3300 Energy Systems: Science, Tech., & Sustainability 4	Co-op
		HLTH5450 Healthcare Research 4	Elective Science Elective (Earth) 4	
		PHTH4120 Global Perspectives in Discrimination and Health 4		
		Elective Technical Elective 4		
Year 4 AA	Co-op	ENGW3302 Adv. Writing for Prof. (to be taken online) 4	CIVE3464 Prob./Eng'g. Econ. 4	Vacation
			CIVE4534 Water Treatment Systems Design 3	
			CIVE4535 Lab for CIVE 4535 1	
			ENCP3000 Prof. Issues in Eng'g. 1	
			PHTH4540 Health Education and Program Planning 4	
	Elective Technical Elective 3			
Year 5 AA	Co-op	CIVE5300 Environmental Sampling and Analysis 2		
		CIVE5301 Lab for CIVE 5300 2		
		CIVE4765 Sr. Design Project - Environmental 5		
		PHTH5214 Environmental Health 3		
		Elective Technical Elective 4		

Revised 5/8/20

Students must achieve a grade of C or higher in all HLTH and PTHH courses to satisfy the Health Sciences Requirement

\*Mathematics/Science Requirement: CHEM 1151, MATH 1341, and PHYS 1151 require a grade of C- or higher

\*\*ENGW3315 is an acceptable substitution.

NUpath requirements are satisfied in several courses across the program and by required courses in the combined major.

**BS in Environmental Engineering - Requirements:**

**Science Elective:** One (1) course is required.

See the undergraduate catalog for the list of approved Science Electives.

**Technical Electives:** Three (3) courses are required.

See the undergraduate catalog for the list of Technical Electives.

**Senior Design Project (Capstone elective):** One (1) course required, either CIVE 4765 (Environmental)

**Public Health - Requirements:**

**Courses:**

Natural Sciences and quantitative reasoning: Foundation of Biostatistics (4 SH), Healthcare Research (4 SH)

Social and Behavioral Sciences: Global Perspectives on Discrimination & Health (4 SH)

**Healthcare Core:**

The American Healthcare system (4 SH), Community and Public Health (4 SH), Health Education and Program Planning (4 SH), and Healthcare Policy and Administration (4 SH)

**Others:**

Intro to Environmental Health (4 SH) and Environmental Health (4 SH)

[Please consult with your Academic Advisor, found here.](#)

Course sequence may be changed, subject to prerequisites.

Degree requirements can be found in the academic catalog and DARS provides a degree audit for students.