

COMBINED MAJOR - BACHELOR OF SCIENCE IN ENVIRONMENTAL ENGINEERING AND HEALTH SCIENCE

CURRICULUM OUTLINE - CLASS OF 2023

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	MATH1341 Calculus 1 for Engrs. ¹ 4 CHEM1151 General Chem. for Engrs. ¹ 4 CHEM1153 Recitation for CHEM1151 0 GE 1501 Cornerstone Eng'g. 1 4 GE 1000 Intro. to Eng. 1 ENGW1111 First-Year Writing 4	MATH1342 Calculus 2 for Engrs. 4 GE 1502 Cornerstone Eng'g. 2 4 PHYS1151 Physics 1 for Engrs. ¹ 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 PHTH 2210 <i>Foundations of Biostatistics²</i> 4	PHTH 1260 <i>The American Healthcare System²</i> 4 MATH2321 Calculus 3 for Engrs. 4	Vacation
Year 2 (AA)	CIVE2334 Environmental Engineering: Principles, Technology, and Sustainability 4 CIVE2260 Materials for the Built Environment 4 CIVE2261 Lab for 2260 1 CIVE2221 Statics and Solid Mechanics 4 CIVE2222 Recitation for CIVE2221 0 PHTH 2515 <i>Healthcare Policy and Admin²</i> 4	PHTH 2414 <i>Intro to Environmental Health²</i> 4 ENCP 2000 Intro to Engineering Co-op 1 CIVE2331 Fluid Mechanics and Hydraulics 4 CIVE2335 Environmental Eng'g. Chemistry 4 CIVE3430 Eng'g Microbiology and Ecology 4	PHTH 2350 <i>Community and Public Health²</i> 4 MATH2341 Diff. Eq./Lin. Alg. 4	Co-op
Year 3 (AA)	Co-op	CIVE3435 Environmental Pollution Fate and Transport 4 Elective Technical Elective 4 PHTH 4540 <i>Health Education and Program Planning²</i> 4 HLTH 5450 <i>Healthcare Research²</i> 4	GE 3300 Energy Systems: Science, Tech., & Sustainability 4 Elective Science Elective (Earth) 4	Co-op
Year 4 (AA)	Co-op	ENCP3000 Prof. Issues in Eng'g. 1 CIVE3464 Prob./Eng'g. Econ. 4 Elective Technical Elective 4 CIVE 4534 Water Treatment Systems Design 3 CIVE 4535 Lab for CIVE 4535 1 PHTH 4120 <i>Global Perspectives in Discrimination and Health²</i> 4	Vacation	ENGW3302 Adv. Writing for Prof. (online) 4 Co-op
Year 5 (AA)	Co-op	Elective Technical Elective 4 CIVE5300 Environmental Engineering Laboratory 4 PHTH 5214 <i>Environmental Health²</i> 3 CIVE4765 Sr. Design Project - Environmental 5		

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

¹ Mathematics/Science Requirement: CHEM 1151, MATH 1341, and PHYS 1151 require a grade of C- or higher

² Health Sciences Major Requirement: HLTH and PHTH courses require a grade of C or higher

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)

Course sequence may be changed, subject to prerequisite requirements.

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