

**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	<a href="#">MATH1341</a> Calculus 1 for Engrs. <sup>1</sup> 4 <a href="#">CHEM1151</a> General Chem. for Engrs. <sup>1</sup> 4 <a href="#">CHEM1153</a> Recitation for CHEM1151 0 <a href="#">GE 1501</a> Cornerstone Eng'g. 1 4 <a href="#">GE 1000</a> Intro. to Eng. 1 <a href="#">ENGW1111</a> First-Year Writing 4	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4 <a href="#">GE 1502</a> Cornerstone Eng'g. 2 4 <a href="#">PHYS1151</a> Physics 1 for Engrs. <sup>1</sup> 3 <a href="#">PHYS1152</a> Physics 1 Lab 1 <a href="#">PHYS1153</a> ILS for PHYS1151 1 <a href="#">PHTH 2210</a> <i>Foundations of Biostatistics<sup>2</sup></i> 4	<a href="#">PHTH 1260</a> <i>The American Healthcare System<sup>2</sup></i> 4 <a href="#">MATH2321</a> Calculus 3 for Engrs. 4	Vacation
Year 2 (AA)	<a href="#">CIVE2334</a> Environmental Engineering: Principles, Technology, and Sustainability 4 <a href="#">CIVE2260</a> Materials for the Built Environment 4 <a href="#">CIVE2261</a> Lab for 2260 1 <a href="#">CIVE2221</a> Statics and Solid Mechanics 4 <a href="#">CIVE2222</a> Recitation for CIVE2221 0 <a href="#">PHTH 2515</a> <i>Healthcare Policy and Admin<sup>2</sup></i> 4	<a href="#">PHTH 2414</a> <i>Intro to Environmental Health<sup>2</sup></i> 4 <a href="#">CIVE2000</a> Intro. to Eng'g. Co-op 1 <a href="#">CIVE2331</a> Fluid Mechanics and Hydraulics 4 <a href="#">CIVE2335</a> Environmental Eng'g. Chemistry 4 <a href="#">CIVE3430</a> Eng'g Microbiology and Ecology 4	<a href="#">PHTH 2350</a> <i>Community and Public Health<sup>2</sup></i> 4 <a href="#">MATH2341</a> Diff. Eq./Lin. Alg. 4	Co-op
Year 3 (AA)	Co-op	<a href="#">CIVE3435</a> Environmental Pollution Fate and Transport 4 Elective Technical Elective 4 <a href="#">PHTH 4540</a> <i>Health Education and Program Planning<sup>2</sup></i> 4 <a href="#">HLTH 5450</a> <i>Healthcare Research<sup>2</sup></i> 4	<a href="#">GE 3300</a> Energy Systems: Science, Tech., & Sustainability 4 Elective Science Elective (Earth) 4	Co-op
Year 4 (AA)	Co-op	<a href="#">CIVE3000</a> Prof. Issues in Eng'g. 1 <a href="#">CIVE3464</a> Prob./Eng'g. Econ. 4 Elective Technical Elective 4 <a href="#">CIVE 4534</a> Water Treatment Systems Design 3 <a href="#">CIVE 4535</a> Lab for CIVE 4535 1 <a href="#">PHTH 4120</a> <i>Global Perspectives in Discrimination and Health<sup>2</sup></i> 4	Vacation	<a href="#">ENGW3302</a> Adv. Writing for Prof. (online) 4  Co-op
Year 5 (AA)	Co-op	Elective Technical Elective 4 <a href="#">CIVE5300</a> Environmental Engineering Laboratory 4 <a href="#">PHTH 5214</a> <i>Environmental Health<sup>2</sup></i> 3 <a href="#">CIVE4765</a> Sr. Design Project - Environmental 5		

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

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

<sup>2</sup> 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 advisor: Russ Rakouskas - 220 Snell, 617-373-5503, r.rakouskas@neu.edu

**The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.**