

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING
CURRICULUM OUTLINE - CLASS OF 2022**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	MATH1342 Calculus 2 for Engrs. * 4 CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE 1501 Cornerstone Eng'g. 1 GE 1000 Intro. to Eng. 1 ENGW1111 First Year Writing 4	MATH2321 Calculus 3 for Engrs. 4 PHYS1151 Physics 1 for Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE 1502 Cornerstone of Eng'g. 2 4 Elective General Elective 4	Elective General Elective 4 Elective General Elective 4	Vacation
Year 2 (MC)	MATH2341 Diff. Eq./Lin. Alg. 4 ECON1115 Macro or Micro Economics or 1116 4 CIVE2221 Statics & Strength 4 CIVE2222 Recitation for CIVE2221 0 CIVE2334 Environ. Eng'g. 1 4	CIVE2000 Intro. to Eng'g. Co-op 1 CIVE2260 Materials 4 CIVE2261 Meas./Mats. Lab 1 CIVE2320 Struct. Analysis 1 4 CIVE2321 Recitation for CIVE2320 0 GE 3300 Energy Systems: Science, Tech., & Sustainability 4 Elective General Elective 4	CIVE2324 Concrete Design** 4 Elective General Elective 4	Co-op
Year 2 (MD)	MATH2341 Diff. Eq./Lin. Alg. 4 CIVE2000 Intro. to Eng'g. Co-op 1 CIVE2221 Statics & Strength 4 CIVE2222 Recitation for CIVE2221 0 CIVE2260 Materials 4 CIVE2261 Meas./Mats. Lab 1 CIVE2334 Environ. Eng'g. 1 4	Co-op	Co-op	Elective General Elective 4 Elective General Elective 4
Year 3 (MC)	ENGW3302 Adv. Writing for Prof.*** 4 Co-op	CIVE2331 Fluid Mechanics 4 CIVE2340 Soil Mechanics 4 CIVE2341 Soil Mechanics Lab 1 Elective Technical Elective 4 Elective Project Elective 4	Elective Technical Elective 3 Elective Science Elective 4	Co-op
Year 3 (MD)	GE 3300 Energy Systems: Science, Tech., & Sustainability 4 CIVE2320 Struct. Analysis 1 4 CIVE2321 Recitation for CIVE2320 0 CIVE2331 Fluid Mechanics 4 ECON1115 Macro- or Microeconomics or 1116 4	ENGW3302 Adv. Writing for Prof.*** 4 Co-op	Co-op	CIVE2340 Soil Mechanics 4 CIVE2341 Soil Mechanics Lab 1 Elective Technical Elective 3
Year 4 (MC)	Co-op	CIVE3000 Prof. Issues in Eng'g. 1 CIVE3464 Prob./Eng'g. Econ. 4 Elective Technical Elective 4 Elective General Elective 4 CIVE 476x Sr. Design Project 5		
Year 4 (MD)	CIVE2324 Concrete Design** 4 CIVE3000 Prof. Issues in Eng'g. 1 CIVE3464 Prob./Eng'g. Econ. 4 Elective Project Elective 4 Elective Science Elective 4	CIVE 476x Sr. Design Project 5 Elective Technical Elective 4 Elective Technical Elective 4 Elective General Elective 4		

* Students will need to have AP credit for Calc. AB (MATH1341-Calculus 1–4 SH)

**CIVE3425 Steel Design may be substituted for CIVE2324 Concrete Design.

** Students will need to take Advanced Writing in the Professions online during this co-op. ENGW3315 Interdisciplinary Advanced Writing is an acceptable substitution for engineering majors.

BS in Civil Engineering - Requirements:

General Electives: Six (6) courses are required.

General electives are academic, non-remedial, non-repetitive courses.

Nupath requirements: Interpreting Culture (IC) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use general electives to do so.

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.

Project Elective: One (1) course required.

See the undergraduate catalog for the list of Project Electives.

Senior Design Project (Capstone elective): One (1) course required, either CIVE 4765 (Environmental), CIVE 4767 (Structural), or CIVE 4768 (Transportation)

*Course sequence may be changed, subject to prerequisites. Consult with your advisor: Russ Rakouskas - 220 SN, 617-373-5503, r.rakouskas@northeastern.edu
The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.*