

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING
CURRICULUM OUTLINE - CLASS OF 2021**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

| | FALL | SPRING | SUMMER 1 | SUMMER 2 |
|--------------------|---|---|---|---|
| Year 1 | MATH1341 Calculus 1 for Engrs. 4 CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE 1501 Cornerstone of Eng'g. 1 GE 1000 Intro. to Eng'g. 1 ENGW1111 First Year Writing 4 | MATH1342 Calculus 2 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 | Vacation | Vacation |
| Year 2 (AA) | MATH2321 Calculus 3 for Engrs. 4 ECON1115 Macro or Micro Economics or 1116 4 CIVE2221 Statics and Solid Mechanics 4 CIVE2222 Recitation for CIVE2221 0 CIVE2334 Environmental Engineering: Principles, Technology, and Sustainability 4 | MATH2341 Diff. Eq./Lin. Alg. 4 CIVE2000 Intro. to Eng'g. Co-op 1 CIVE2260 Materials for the Built Environ. 4 CIVE2261 Lab for CIVE 2260 1 CIVE2320 Struct. Analysis 4 CIVE2321 Recitation for CIVE2320 0 GE 3300 Energy Systems: Science, Tech., & Sustainability 4 | Vacation | Co-op |
| Year 2 (BB) | MATH2321 Calculus 3 for Engrs. 4 CIVE2000 Intro. to Eng'g. Co-op 1 CIVE2221 Statics and Solid Mechanics 4 CIVE2222 Recitation for CIVE2221 0 CIVE2260 Materials for the Built Environmen 4 CIVE2261 Lab for 2260 1 CIVE2334 Environmental Engineering: Principles, Technology, and Sustainability 4 | Co-op | Co-op | Vacation |
| Year 3 (AA) | Co-op | CIVE2331 Fluid Mechanics and Hydraulics 4 CIVE2340 Geotechnical Engineering 4 CIVE2341 Lab for CIVE 2340 1 Elective Technical Elective 4 Elective Science Elective 4 | CIVE2324 Concrete Str. Design* 4 Elective General Elective 4 | Co-op |
| Year 3 (BB) | GE 3300 Energy Systems: Science, Tech., & Sustainability 4 CIVE2320 Struct. Analysis 4 CIVE2321 Recitation for CIVE2320 0 CIVE2331 Fluid Mechanics and Hydraulics 4 ECON1115 Macro- or Microeconomics or 1116 4 | Co-op | Co-op | MATH2341 Diff. Eq./Lin. Alg. 4 CIVE2340 Geotechnical Engineering 4 CIVE2341 Lab for CIVE 2340 1 |
| Year 4 (AA) | Co-op | CIVE3000 Prof. Issues in Eng'g. 1 CIVE3464 Prob./Eng'g. Econ. 4 Elective Project Elective 4 Elective Technical Elective 3 ENGW3302 Adv. Writing for Prof.** 4 | Elective General Elective 4 Elective General Elective 4 | Co-op |
| Year 4 (BB) | CIVE2324 Concrete Str. Design* 4 CIVE3000 Prof. Issues in Eng'g. 1 Elective Technical Elective 3 Elective Science Elective 4 ENGW3302 Adv. Writing for Prof.** 4 | Co-op | Co-op | Elective General Elective 4 Elective General Elective 4 |
| Year 5 (AA) | Co-op | CIVE 476x Sr. Design Project 5 Elective General Elective 4 Elective Technical Elective 4 Elective General Elective 4 | | |
| Year 5 (BB) | CIVE3464 Prob./Eng'g. Econ. 4 Elective General Elective 4 Elective Technical Elective 4 Elective Project Elective 4 | CIVE 476x Sr. Design Proj 5 Elective General Elective 4 Elective General Elective 4 Elective Technical Elective 4 | | |

Revised version, 02/23/2018

*CIVE3425 Steel Design is an acceptable substitution for CIVE2324 Concrete Design.

**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

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.*