### CURRICULUM OUTLINE - CLASS OF 2021

Sample Only – Actual Curriculum Sequence May Deviate from Sample

#### Year 1
- **FALL**
  - MATH1341: Calculus 1 for Engrs. 4
  - CHEM1151: General Chem. for Engrs. 4
  - GE 1501: Intro. to Eng'g. 1 4
  - ENGW1111: College Writing 4
- **SPRING**
  - MATH1342: Calculus 2 for Engrs. 4
  - PHYS1151: Physics 1 for Engrs. 3
  - PHYS1152: Physics 1 Lab 1
  - GE 1502: Cornerstone of Eng’g. 2 4
- **SUMMER 1**
  - Vacation
- **SUMMER 2**
  - Vacation

#### Year 2 (AA)
- **FALL**
  - MATH2321: Calculus 3 for Engrs. 4
  - CHEM1115: Macro- or Microeconomics 4
  - CIVE2221: Statics & Strength 4
  - CIVE2222: Recitation for CIVE2221 0
  - CIVE2334: Environ. Eng’g. 1 4
  - Co-op
- **SPRING**
  - MATH2341: Diff. Eq./Lin. Alg. 4
  - CIVE2200: Intro. to Eng’g. Co-op 1
  - CVE2260: Materials 4
  - CVE2261: Meas./Mats. Lab 1
  - CVE2320: Struct. Analysis 1 4
  - CVE2331: Recitation for CVE2320 0
  - GE 1300: Energy Systems: Science, Tech., & Sustainability 4
- **SUMMER 1**
  - Vacation
- **SUMMER 2**
  - Co-op

#### Year 2 (BB)
- **FALL**
  - MATH2321: Calculus 3 for Engrs. 4
  - CIVE2000: Intro. to Eng’g. Co-op 1
  - CIVE2271: 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
- **SPRING**
  - CVE2311: Fluid Mechanics 4
  - CVE2340: Concrete Design** 4
  - CVE2341: Soil Mechanics Lab 1
  - Elective: Technical Elective 4
  - Elective: Science Elective 4
- **SUMMER 1**
  - Vacation

#### Year 3 (AA)
- **FALL**
  - GE 3300: Energy Systems: Science, Tech., & Sustainability 4
  - CIVE2330: Struct. Analysis 1 4
  - CIVE2331: Recitation for CIVE2330 0
  - CIVE2333: Fluid Mechanics 4
  - CIVE2334: Concrete Design** 4
  - Elective: Technical Elective 4
  - ELECTIVE: General Elective 4
- **SPRING**
  - MATH2341: Diff. Eq./Lin. Alg. 4
  - CIVE2340: Soil Mechanics 4
  - CIVE2341: Soil Mechanics Lab 1
  - Elective: General Elective 4
  - Co-op

#### Year 3 (BB)
- **FALL**
  - GE 3300: Energy Systems: Science, Tech., & Sustainability 4
  - CIVE2330: Struct. Analysis 1 4
  - CIVE2331: Recitation for CIVE2330 0
  - CIVE2333: Fluid Mechanics 4
  - CVE1116: Macro- or Microeconomics 4
  - Co-op
  - Co-op
- **SPRING**
  - CVE8000: Prof. Issues in Eng’g. 1
  - CVE3464: Prob./Eng’g. Econ. 4
  - Elective: Technical Elective 4
  - FINA 6309: Found. of Acct. and Finance (General Elective) 4
  - MATH6200: Math Methods (General Elective) 4
  - Elective: General Elective 4
  - Elective: Technical Elective 4

#### Year 4 (YB)
- **FALL**
  - CIVE2324: Concrete Design** 4
  - CIVE3000: Prof. Issues in Eng’g. 1
  - CVE3600: Project Elective 4
  - Elective: Technical Elective 4
  - FINA 6309: Found. of Acct. and Finance (General Elective) 4
  - ENGW1380: Adv. Writing for Prof.* 4
  - Elective: Grad Course #1 (General Elective) 4
  - Elective: Grad Course #2 (General Elective) 4
  - Elective: Grad Course #3 (General Elective) 4
  - Elective: Grad Course #4 (General Elective) 4
  - Elective: Grad Course #5 (Technical Elective) 4
  - Elective: Grad Course #6 (Technical Elective) 4
  - Elective: Grad Course #7 (Technical Elective) 4
  - Elective: Grad Course #8 (Technical Elective) 4
  - Elective: Grad Course #9 (Technical Elective) 4
- **SPRING**
  - CVE476x: Sr. Design Project 5
  - Elective: Grad Course #7 (General Elective) 4
  - Elective: Grad Course #8 (General Elective) 4
  - Elective: Grad Course #9 (General Elective) 4
  - Elective: Grad Course #10 (General Elective) 4

#### Year 5 (YB)
- **FALL**
  - Elective: Grad Course #3 (General Elective) 4
  - Elective: Grad Course #4 (Technical Elective) 4
  - ENSY 5000: Energy System Integration 4
  - Elective: Grad Course #5 (Technical Elective) 4
  - Elective: Grad Course #6 (Technical Elective) 4
- **SPRING**
  - CVE476x: Sr. Design Project 5
  - Elective: Grad Course #7 (General Elective) 4
  - Elective: Grad Course #8 (General Elective) 4
  - Elective: Grad Course #9 (General Elective) 4
  - Elective: Grad Course #10 (General Elective) 4

#### Year 5 (ZC)
- **FALL**
  - CVE464: Prob./Eng’g. Econ. 4
  - ENSY 5000: Energy System Integration 4
  - Elective: Grad Course #5 (Technical Elective) 4
  - Elective: Grad Course #6 (Technical Elective) 4
  - Elective: Grad Course #7 (Technical Elective) 4
  - Elective: Grad Course #8 (Technical Elective) 4
- **SPRING**
  - CVE476x: Sr. Design Project 5
  - Elective: Grad Course #7 (General Elective) 4
  - Elective: Grad Course #8 (General Elective) 4
  - Elective: Grad Course #9 (General Elective) 4
  - Elective: Grad Course #10 (General Elective) 4

### BS/MS with BS in Civil Engineering and MS in Energy Systems

- **Fall, Spring, Summer 1, Summer 2**
  - FALL
  - SPRING
  - SUMMER 1
  - SUMMER 2
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)

BS in Energy Systems - Requirements:

MS in Energy Systems - Requirements:

Students must take 32 credits of graduate coursework that satisfy MS requirements found in the Graduate Catalog

BS/MS Admission Requirements and Academic Policies can be found via the following URL - http://www.coe.neu.edu/sites/default/files/pdfs/coe/advising/BSMSPolicies.pdf

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.