

PlusOne Curriculum for BS in Civil Engineering/MS in Civil Engineering

BS in Civil Engineering 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. 4 CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE 1501 Cornerstone of Eng'g. 1 4 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
Year 2 (MC)	MATH2321 Calculus 3 for Engrs. 4 ECON1115 Macro or Micro Economics 4 or 1116 CIVE2221 Statics & Strength 4 CIVE2222 Recitation for CIVE2221 0 CIVE2334 Environ. Eng'g. 1 4	MATH2341 Diff. Eq./Lin. Alg. 4 CIVE2000 Intro. to Eng'g. Co-op 1 CIVE2260 Materials 4 CIVE2261 Meas./Matls. Lab 1 CIVE2320 Struct. Analysis 1 4 CIVE2321 Recitation for CIVE2320 0 GE 3300 Energy Systems: Science, Tech., & Sustainability 4	Vacation	Co-op
Year 2 (MD)	MATH2321 Calculus 3 for Engrs. 4 CIVE2000 Intro. to Eng'g. Co-op 1 CIVE2221 Statics & Strength 4 CIVE2222 Recitation for CIVE2221 0 CIVE2260 Materials 4 CIVE2261 Meas./Matls. Lab 1 CIVE2334 Environ. Eng'g. 1 4	Co-op	Co-op	Vacation
Year 3 (MC)	Co-op	CIVE2331 Fluid Mechanics 4 CIVE2340 Soil Mechanics 4 CIVE2341 Soil Mechanics Lab 1 Elective Technical Elective 4 Elective Science Elective 4	CIVE2324 Concrete Design** 4 Elective General 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 4 or 1116	Co-op	Co-op	MATH2341 Diff. Eq./Lin. Alg. 4 CIVE2340 Soil Mechanics 4 CIVE2341 Soil Mechanics Lab 1
Year 4 (MC)	Co-op	CIVE3000 Prof. Issues in Eng'g. 1 CIVE3464 Prob./Eng'g. Econ. 4 Elective CIVE Project Elective 4 Elective Grad Course #1 (General Elective) 4 Elective Grad Course #2 (General Elective) 4	ENGW3302 Adv. Writing for Prof.* 4 Elective General Elective 4	Co-op
Year 4 (MD)	CIVE2324 Concrete Design** 4 CIVE3000 Prof. Issues in Eng'g. 1 Elective Grad Course #1 (Technical Elective) 4 Elective CIVE Project Elective 4 ENGW3302 Adv. Writing for Prof.* 4	Co-op	Co-op	Elective General Elective 4 Elective General Elective 4
Year 5 (YB)	Co-op	CIVE 476x Sr. Design Project 5 Elective Grad Course #3 (Technical Elective) 4 Elective Technical Elective 4 Elective Grad Course #4 (General Elective) 4		
Year 5 (ZC)	Elective Technical Elective 4 Elective Science Elective 4 Elective Grad Course #2 (General Elective) 4 Elective Grad Course #3 (General Elective) 4	CIVE4765 Sr. Design Proj 5 Elective Technical Elective 4 CIVE3464 Prob./Eng'g. Econ. 4 Elective Grad Course #4 (General Elective) 4		

Revised 1/19/18

*ENGW3315 Interdisciplinary Advanced Writing is an acceptable substitution for engineering majors.

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

NUpath Requirements through General Electives- 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. General Electives are academic, non-remedial, non-repetitive courses.

Science Elective: 1 required (Please see the undergraduate catalog for the list of approved Science Electives)

Civil Engineering Technical Electives (TE): 3 required (Please see the undergraduate catalog for the list of Technical Electives)

Civil Engineering Project Elective: 1 required (Either CIVE4542 Foundation Engineering, CIVE5536 Hydrologic Engineering, or CIVE4554 Highway Engineering)

Capstones (Senior Design Project):

CIVE4765 - Environmental capstone

CIVE4767 - Structural capstone

CIVE4768 - Transportation capstone

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.

MS IN CIVIL ENGINEERING CURRICULUM

	FALL	SPRING
PlusOne Year	Elective Grad. Course #5 4 Elective Grad. Course #6 4	Elective Grad. Course #7 4 Elective Grad. Course #8 4

For more information about the PlusOne program or for assistance with applying to the program, please contact the Graduate Student Services Team at support@husky.desk-mail.com.