PlusOne Curriculum for BS in Civil Engineering/MS in Environmental 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	MATH1342	Calculus 2 for Engrs.	4				Vacation		
	CHEM1151	General Chem. for Engrs.	4	PHYS1151	Physics 1 for Engrs.	3						
	CHEM1153	Recitation for CHEM1151	0	PHYS1152	Physics 1 Lab	1						
	GE 1501	Cornerstone of Eng'g. 1	4	PHYS1153	ILS for PHYS1151	1						
	GE 1000	Intro. to Eng'g.	1	GE 1502	Cornerstone of Eng'g. 2	4						
	ENGW1111	First-Year Writing	4	Elective	General Elective	4						
Year 2 (MC)	MATH2321	Calculus 3 for Engrs.	4	MATH2341	Diff. Eq./Lin. Alg.	4	Vacation			Co-op		
	ECON1115 or 1116	Macro or Micro Economics	4	CIVE2000	Intro. to Eng'g. Co-op	1						
				CIVE2260	Materials	4						
	CIVE2221	Statics & Strength	4	CIVE2261	Meas./Matls. Lab	1						
	CIVE2222	Recitation for CIVE2221	0	CIVE2320	Struct. Analysis 1	4						
	CIVE2334	Environ. Eng'g. 1	4	CIVE2321	Recitation for CIVE2320	0						
				GE 3300	Energy Systems: Science, Tech., & Sustainability	4						
Year 2 (MD)	MATH2321	Calculus 3 for Engrs.	4	Co-op			Co-op			Vacation		
	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									
Year 3 (MC)	Co-op			CIVE2331	Fluid Mechanics	4	CIVE2324	Concrete Design**	4	Co-op		
				CIVE2340	Soil Mechanics	4	Elective	General Elective	4			
				CIVE2341	Soil Mechanics Lab	1						
				Elective	Technical Elective	4						
				Elective	Science Elective	4						
Year 3 (MD)	GE 3300	Energy Systems: Science, Tech., & Sustainability	4	Co-op			Co-op			MATH2341	Diff. Eq./Lin. Alg.	4
	CIVE2320	Struct. Analysis 1	4							CIVE2340	Soil Mechanics	4
	CIVE2321	Recitation for CIVE2320	0							CIVE2341	Soil Mechanics Lab	1
	CIVE2331	Fluid Mechanics	4									
	ECON1115 or 1116	Macro- or Microeconomics	4									
Year 4 (MC)	Co-op			CIVE3000	Prof. Issues in Eng'g.	1	ENGW3302	Adv. Writing for Prof.*	4	Co-op		
				CIVE3464	Prob./Eng'g. Econ.	4	Elective	General Elective	4			
				Elective	Technical Elective	4						
				Elective	*Grad Course #1* (General Elective)	*4*						
				CIVE 5536	*Hydrologic Eng'g* (Project Elective)	*4*						
Year 4 (MD)	CIVE2324	Concrete Design**	4	Co-op			Co-op			Elective	General Elective	4
	CIVE3000	Prof. Issues in Eng'g.	1							Elective	General Elective	4
	Elective	*Grad Course #1* (Technical Elective)	*4*									
	CIVE 5536	*Hydrologic Eng'g* (Project Elective)	*4*									
	ENGW3302	Adv. Writing for Prof.*	4									
Year 5 (YB)	Co-op			CIVE 476x	Sr. Design Project	5						
				Elective	General Elective	4						
				Elective	*Grad Course #3* (Technical Elective)	*4*						
				Elective	*Grad Course #4* (General Elective)	*4*						
Year 5 (ZC)	CIVE3464	Prob./Eng'g. Econ.	4	CIVE4765	Sr. Design Proj	5						
	Elective	Science Elective	4	*Elective*	*Grad Course #4* (Technical Elective)	*4*						
	Elective	Technical Elective	4	Elective	General Elective	4						
	Elective	*Grad Course #3* (General Elective)	*4*	Elective	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 ENVIRONMENTAL ENGINEERING CURRICULUM

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