## BS/MS with BS in Civil Engineering and MS in Environmental Engineering CURRICULUM OUTLINE - CLASS OF 2022

Sample Only – Actual Curriculum Sequence May Deviate from Sample

		FALL	DIE OIIIY A	SPRING	Deviate jie	SUMMER 1		SUMMER 2
	MATH1341		MATH1342	Calculus 2 for Engrs.	ı			
Year 1	CHEM1151	General Chem. for Engrs. 4	PHYS1151	Physics 1 for Engrs.				
	CHEM1153		PHYS1152	Physics 1 Lab				
	GE 1501		PHYS1153	ILS for PHYS1151		Vacation		Vacation
	GE 1000		GE 1502	Cornerstone of Eng'g. 2				
	ENGW1111		Elective	General Elective				
-	MATH2321		MATH2341	Diff. Eq./Lin. Alg.				
Year 2 (AA)	ECON1115	Calculus 5 Ioi Eligis. 4	CIVE2000	Intro. to Eng'g. Co-op				
	or 1116	Macro- or Microeconomics 4	CIVE2000 CIVE2260	Materials 4				
	CIVE2221 CIVE2222	Statics & Strength 4 Recitation for CIVE2221 0	CIVE2261 CIVE2320			Vacation		Co-op
	CIVE2334	Environ. Eng'g. 1 4	CIVE2321					
			GE 3300	Energy Systems: Science,	•			
				Tech., & Sustainability				
Year 2 (BB)	MATH2321	Calculus 3 for Engrs. 4						
	<u>CIVE2000</u>	Intro. to Eng'g. Co-op 1						
	<u>CIVE2221</u>	Statics & Strength 4						
	CIVE2222	Recitation for CIVE2221 0		Co-op		Со-ор		Vacation
	<u>CIVE2260</u>	Materials 4						
	CIVE2261	Meas./Matls. Lab 1						
	CIVE2334	Environ. Eng'g. 1 4						
Year 3 (AA)			CIVE2331	Fluid Mechanics 4	CIVE2324	Concrete Design**	ı	
			CIVE2340	Soil Mechanics	Elective	General Elective	ı	
		Со-ор	CIVE2341	Soil Mechanics Lab				Со-ор
			Elective	Technical Elective	ı			
			Elective	Science Elective	ı			
	GE 3300	Energy Systems: Science, 4					MATH2341	Diff. Eq./Lin. Alg. 4
		Tech., & Sustainability					CIVE2340	Soil Mechanics 4
	CIVE2320	Struct. Analysis 1 4					CIVE2341	Soil Mechanics Lab 1
Year 3 (BB)	CIVE2321	Recitation for CIVE2320 0		Со-ор		Со-ор		
(,	CIVE2331	Fluid Mechanics 4						
	ECON1115	Traid Weenanies 4						
	or 1116	Macro- or Microeconomics 4						
	01 1110	Wacro- or Wicroeconomics 4	CIVE3000	Prof. Issues in Eng'g.	ENGW3302	Adv. Writing for Prof.*	ı	
Year 4 (YB)			CIVE3464	Prob./Eng'g. Econ.		General Elective		
			Elective	Grad Course #1 4	Licetive	General Elective	1	
			LIECTIVE	(General Elective)				
		Со-ор	Elective	Grad Course #2 4				Vacation
			Elective					
				(General Elective)				
			CIVE 5536	Hydrologic Eng'g 4				
				(Project Elective)				
Year 4 (ZC)	CIVE2324	Concrete Design** 4	Elective	Grad Course #2 4			Elective	General Elective 4
		, and the second		(General Elective)				
	CIVE3000	Prof. Issues in Eng'g. 1	CIVE 5536	Hydrologic Eng'g 4			Elective	General Elective 4
		1.01.155005 11.21.8 8.		(Project Elective)		Vacation	Licotive	General Elective
	Elective	Grad Course #1 4	Elective	Grad Course #4 4				
		(Technical Elective)		(General Elective)				
	Elective	Technical Elective 4	Elective	Science Elective	l l			
	ENGW3302	Adv. Writing for Prof.* 4						
Year 5 (YB)	Elective	Grad Course #4 4	CIVE4765	Sr. Design Proj - Env'l	i			
		(General Elective)	_					
	Elective		Elective	General Elective				
	Elective	Grad. Course #5 4	Elective	Grad. Course #7 4				
	Elective	Grad. Course #6 4	Elective	Grad. Course #8 4				
Year 5 (ZC)	CIVE3464	Prob./Eng'g. Econ. 4		Sr. Design Proj - Env'l	_1			
	Elective	Grad. Course #5 4	Elective	Grad. Course #7 4				
	Elective	Grad. Course #6 4	Elective	Grad. Course #8 4				
	Elective	Techical Elective 4	Elective	General Elective	ŀ			

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## 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)

## MS in Environmental Engineering - 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

Students will be required to meet with an undergraduate advisor to petition to enter the program. \\

Students are encouraged to meet with their financial aid counselor to review any financial questions.

4 semesters of coursework at Northeastern University must be completed with a minimum GPA of 3.2 to join the BS/MS program.

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.

<sup>\*</sup>ENGW3315 Interdisciplinary Advanced Writing is an acceptable substitution for engineering majors.

<sup>\*\*</sup>CIVE3425 Steel Design may be substituted for CIVE2324 Concrete Design.