

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

### BS 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	<a href="#">MATH1341</a>	Calculus 1 for Engrs.	4	<a href="#">MATH1342</a>	Calculus 2 for Engrs.	4		
	<a href="#">CHEM1151</a>	General Chem. for Engrs.	4	<a href="#">PHYS1151</a>	Physics 1 for Engrs.	3		
	<a href="#">CHEM1153</a>	Recitation for CHEM1151	0	<a href="#">PHYS1152</a>	Physics 1 Lab	1		Vacation
	<a href="#">GE 1501</a>	Cornerstone of Eng'g. 1	4	<a href="#">PHYS1153</a>	ILS for PHYS1151	1		
	<a href="#">GE 1000</a>	Intro. to Eng'g.	1	<a href="#">GE 1502</a>	Cornerstone of Eng'g. 2	4		
	<a href="#">ENGW1111</a>	First-Year Writing	4	<a href="#">Elective</a>	General Elective	4		
Year 2 (MC)	<a href="#">MATH2321</a>	Calculus 3 for Engrs.	4	<a href="#">MATH2341</a>	Diff. Eq./Lin. Alg.	4		
	<a href="#">ECON1115</a>	Macro or Micro Economics	4	<a href="#">CIVE2000</a>	Intro. to Eng'g. Co-op	1		
	<a href="#">or 1116</a>			<a href="#">CIVE2260</a>	Materials	4		
	<a href="#">CIVE2221</a>	Statics & Strength	4	<a href="#">CIVE2261</a>	Meas./Matls. Lab	1	Vacation	
	<a href="#">CIVE2222</a>	Recitation for CIVE2221	0	<a href="#">CIVE2320</a>	Struct. Analysis 1	4		Co-op
	<a href="#">CIVE2334</a>	Environ. Eng'g. 1	4	<a href="#">CIVE2321</a>	Recitation for CIVE2320	0		
				<a href="#">GE 3300</a>	Energy Systems: Science, Tech., & Sustainability	4		
Year 2 (MD)	<a href="#">MATH2321</a>	Calculus 3 for Engrs.	4		Co-op			Vacation
	<a href="#">CIVE2000</a>	Intro. to Eng'g. Co-op	1					
	<a href="#">CIVE2221</a>	Statics & Strength	4					
	<a href="#">CIVE2222</a>	Recitation for CIVE2221	0					
	<a href="#">CIVE2260</a>	Materials	4					
	<a href="#">CIVE2261</a>	Meas./Matls. Lab	1					
	<a href="#">CIVE2334</a>	Environ. Eng'g. 1	4					
Year 3 (MC)		Co-op		<a href="#">CIVE2331</a>	Fluid Mechanics	4	<a href="#">CIVE2324</a>	Concrete Design**
				<a href="#">CIVE2340</a>	Soil Mechanics	4	<a href="#">Elective</a>	General Elective
				<a href="#">CIVE2341</a>	Soil Mechanics Lab	1		
				<a href="#">Elective</a>	Technical Elective	4		
				<a href="#">Elective</a>	Science Elective	4		Co-op
Year 3 (MD)	<a href="#">GE 3300</a>	Energy Systems: Science, Tech., & Sustainability	4		Co-op			<a href="#">MATH2341</a>
	<a href="#">CIVE2320</a>	Struct. Analysis 1	4					<a href="#">CIVE2340</a>
	<a href="#">CIVE2321</a>	Recitation for CIVE2320	0					<a href="#">CIVE2341</a>
	<a href="#">CIVE2331</a>	Fluid Mechanics	4					
	<a href="#">ECON1115</a>	Macro- or Microeconomics	4					
	<a href="#">or 1116</a>							
Year 4 (MC)		Co-op		<a href="#">CIVE3000</a>	Prof. Issues in Eng'g.	1	<a href="#">ENGW3302</a>	Adv. Writing for Prof.*
				<a href="#">CIVE3464</a>	Prob./Eng'g. Econ.	4	<a href="#">Elective</a>	General Elective
				<a href="#">Elective</a>	CIVE Project Elective	4		
				<a href="#">Elective</a>	<b>Grad Course #1</b>	4		
				<a href="#">Elective</a>	(General Elective)			Co-op
				<a href="#">Elective</a>	<b>Grad Course #2</b>	4		
				<a href="#">Elective</a>	(General Elective)			
Year 4 (MD)	<a href="#">CIVE2324</a>	Concrete Design**	4		Co-op			<a href="#">Elective</a>
	<a href="#">CIVE3000</a>	Prof. Issues in Eng'g.	1					<a href="#">General Elective</a>
	<a href="#">Elective</a>	<b>Grad Course #1</b>	4					<a href="#">General Elective</a>
	<a href="#">Elective</a>	(Technical Elective)						
	<a href="#">Elective</a>	CIVE Project Elective	4					
	<a href="#">ENGW3302</a>	Adv. Writing for Prof.*	4					
Year 5 (YB)		Co-op		<a href="#">CIVE 476x</a>	Sr. Design Project	5		
				<a href="#">Elective</a>	<b>Grad Course #3</b>	4		
				<a href="#">Elective</a>	(Technical Elective)			
				<a href="#">Elective</a>	Technical Elective	4		
				<a href="#">Elective</a>	<b>Grad Course #4</b>	4		
				<a href="#">Elective</a>	(General Elective)			
Year 5 (ZC)	<a href="#">Elective</a>	Technical Elective	4	<a href="#">CIVE4765</a>	Sr. Design Proj	5		
	<a href="#">Elective</a>	Science Elective	4	<a href="#">Elective</a>	Technical Elective	4		
	<a href="#">Elective</a>	<b>Grad Course #2</b>	4	<a href="#">CIVE3464</a>	Prob./Eng'g. Econ.	4		
	<a href="#">Elective</a>	(General Elective)		<a href="#">Elective</a>	<b>Grad Course #4</b>	4		
	<a href="#">Elective</a>	<b>Grad Course #3</b>	4	<a href="#">Elective</a>	(General Elective)			
	<a href="#">Elective</a>	(General Elective)						

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	<a href="#">Elective</a>	Grad. Course #5	4	<a href="#">Elective</a>	Grad. Course #7	4
	<a href="#">Elective</a>	Grad. Course #6	4	<a href="#">Elective</a>	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.