

**BACHELOR OF SCIENCE 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="#">MATH1342</a> Calculus 2 for Engrs. * 4	<a href="#">MATH2321</a> Calculus 3 for Engrs. 4	<a href="#">Elective</a> General Elective 4	Vacation
	<a href="#">CHEM1151</a> General Chem. for Engrs. 4	<a href="#">PHYS1151</a> Physics 1 for Engrs. 3	<a href="#">CIVE2221</a> Statics and Solid Mechanics 4	
	<a href="#">CHEM1153</a> Recitation for CHEM1151 0	<a href="#">PHYS1152</a> Physics 1 Lab 1	<a href="#">CIVE2222</a> Recitation for CIVE2221 0	
	<a href="#">GE 1501</a> Cornerstone Eng'g. 1 4	<a href="#">PHYS1153</a> ILS for PHYS1151 1		
	<a href="#">GE 1000</a> Intro. to Eng. 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="#">MATH2341</a> Diff. Eq./Lin. Alg. 4	<a href="#">CIVE2000</a> Intro. to Eng'g. Co-op 1	<a href="#">CIVE2324</a> Concrete Str. Design** 4	Co-op
	<a href="#">ECON1115</a> Macro or Micro Economics 4	<a href="#">CIVE2320</a> Structural Analysis 4	<a href="#">Elective</a> General Elective 4	
	<a href="#">CIVE2260</a> Materials for the Built Environ. 4	<a href="#">CIVE2321</a> Recitation for CIVE2320 0		
	<a href="#">CIVE2261</a> Lab for 2260 1	<a href="#">GE 3300</a> Energy Systems: Science, Tech., & Sustainability 4		
	<a href="#">CIVE2334</a> Environmental Engineering: Principles, Technology, and Sustainability 4	<a href="#">Elective</a> General Elective 4		
		<a href="#">CIVE2331</a> Fluid Mechanics and Hydraulics OR 4		
		<a href="#">CIVE2340</a> Geotechnical Engineering 4		
	<a href="#">CIVE2341</a> Lab for CIVE 2340 1 <i>(prioritize Project Elective prerequisite)</i>			
Year 2 (MD)	<a href="#">MATH2341</a> Diff. Eq./Lin. Alg. 4	Co-op	Co-op	Elective General Elective Elective General Elective
	<a href="#">CIVE2000</a> Intro. to Eng'g. Co-op 1			
	<a href="#">CIVE2320</a> Struct. Analysis 4			
	<a href="#">CIVE2321</a> Recitation for CIVE2320 0			
	<a href="#">CIVE2260</a> Materials for the Built Environ. 4			
	<a href="#">CIVE2261</a> Lab for 2260 1			
	<a href="#">CIVE2334</a> Environmental Engineering: 4			
Year 3 (MC)	<a href="#">ENGW3302</a> Adv. Writing for Prof.*** 4	<a href="#">Elective</a> Technical Elective 4	<a href="#">Elective</a> General Elective 4	Co-op
	Co-op	<a href="#">Elective</a> Project Elective 4	<a href="#">Elective</a> General Elective 4	
		<a href="#">CIVE3464</a> Prob./Eng'g. Econ. 4		
		<a href="#">CIVE2331</a> Fluid Mechanics and Hydraulics OR 4		
		<a href="#">CIVE2340</a> Geotechnical Engineering 4		
		<a href="#">CIVE2341</a> Lab for CIVE 2340 1		
		<i>(whichever was not taken in Spring of Year 2)</i>		
Year 3 (MD)	<a href="#">GE 3300</a> Energy Systems: Science, Tech., & Sustainability 4	Co-op	Co-op	<a href="#">CIVE2340</a> Geotechnical Engineering <a href="#">CIVE2341</a> Lab for CIVE 2340 Elective General Elective
	<a href="#">CIVE2324</a> Concrete Str. Design** 4			
	<a href="#">CIVE2331</a> Fluid Mechanics and Hydraulics 4			
	<a href="#">ECON1115</a> Macro- or Microeconomics 4			
Year 4 (MC)	Co-op	<a href="#">CIVE3000</a> Prof. Issues in Eng'g. 1		
		<a href="#">Elective</a> Technical Elective 3		
		<a href="#">Elective</a> Technical Elective 4		
		<a href="#">Elective</a> Science Elective 4		
		<a href="#">CIVE 476x</a> Sr. Design Project 5		
Year 4 (MD)	<a href="#">CIVE3464</a> Prob./Eng'g. Econ. 4	<a href="#">CIVE 476x</a> Sr. Design Project 5		
	<a href="#">CIVE3000</a> Prof. Issues in Eng'g. 1	<a href="#">Elective</a> Technical Elective 4		
	<a href="#">Elective</a> Technical Elective 4	<a href="#">Elective</a> General Elective 4		
	<a href="#">Elective</a> Project Elective 4	<a href="#">Elective</a> Technical Elective 3		
	<a href="#">Elective</a> Science Elective 4			

Revised version, 02/23/2018

\* Students will need to have AP credit for Calc. AB (MATH1341-Calculus 1–4 SH)

\*\*CIVE3425 Steel Design may be substituted for CIVE2324 Concrete Design.

\*\* Students will need to take Advanced Writing in the Professions online during this co-op. ENGW3315 Interdisciplinary Advanced Writing is an acceptable substitution for engineering majors.

**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 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.

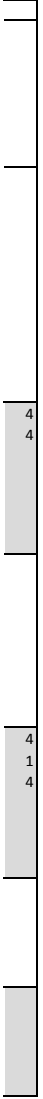
See the undergraduate catalog for the list of Technical Electives.

**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)

*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.*



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