

BACHELOR OF SCIENCE IN CIVIL ENGINEERING - 4 YEAR 2 CO-OP OPTION
CURRICULUM OUTLINE - CLASS OF 2016, 2017, 2018, 2019

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	School *		Vacation	
	CHEM1151	General Chem. for Engrs. 4	PHYS1151	Physics 1 for Engrs. 3				
	CHEM1153	Recitation for CHEM1151 0	PHYS1152	Physics 1 Lab 1				
	GE1110	Eng'g. Design 4	PHYS1153	ILS for PHYS1151 1				
	GE1000	Intro. to Eng'g. 1	GE1111	Eng'g. Prob. Solv. & Comp. 4				
	NU Core	Arts OR Humanities Lvl. 1 4	ENGW1111	College Writing 4				
Year 2 (MC)	MATH2321	Calculus 3 for Engrs. 4	MATH2341	Diff. Eq./Lin. Alg. 4	CIVE2324	Concrete Design *** 4		
	PHYS1155	Physics 2 for Engrs. 3	CIVE2000	Intro. to Eng'g. Coop 1	Elective	General Elective 1 4		
	PHYS1156	Physics 2 Lab 1	CIVE2260	Materials 3				
	PHYS1157	ILS for PHYS1155 1	CIVE2261	Meas./Matls. Lab 2				
	CIVE2221	Statics & Strength 4	CIVE2320	Struct. Analysis 1 4			Co-op	
	CIVE2222	Recitation for CIVE 2221 0	CIVE2321	Recitation for CIVE2320 0				
	CIVE2334	Environ. Eng'g. 1 4	ECON1115	Macro or Micro Economics 4				
			or 1116	(Social Science Lvl. 1)				
Year 2 (MD)	MATH2321	Calculus 3 for Engrs. 4	Co-op		Co-op		MATH2341	Diff. Eq./Lin. Alg. 4
	CIVE2000	Intro. to Eng'g. Coop 1					Elective	General Elective 1 4
	CIVE2221	Statics & Strength 4						
	CIVE2222	Recitation for CIVE 2221 0						
	CIVE2260	Materials 3						
	CIVE2261	Meas./Matls. Lab 2						
	CIVE2334	Environ. Eng'g. 1 4						
Year 3 (MC)	Co-op		CIVE2331	Fluid Mechanics 4	Elective	Civil Tech. Elective 2 4		
			CIVE2340	Soil Mechanics 4	Elective	Science Elective 4		
			CIVE2341	Soil Mechanics Lab 1				
			CIVE3464	Prob./Eng'g. Econ. 4				
			Elective	Civil Tech. Elective 1 3/4				
Year 3 (MD)	PHYS1155	Physics 2 for Engrs. 3	Co-op		Co-op		CIVE2340	Soil Mechanics 4
	PHYS1156	Physics 2 Lab 1					CIVE2341	Soil Mechanics Lab 1
	PHYS1157	ILS for PHYS1155 1					Elective	Civil Tech. Elective 1 3/4
	CIVE2320	Struct. Analysis 1 4						
	CIVE2321	Recitation for CIVE2320 0						
	CIVE2331	Fluid Mechanics 4						
	ECON1115	Macro or Micro Economics 4						
	or 1116	(Social Science Lvl. 1)						
Year 4 (MC)	Co-op		CIVE476x	Sr. Design Project 5				
			CIVE3000	Prof. Issues in Eng'g. 1				
			Elective	Civil Tech. Elective 3 4				
			Elective	Civil Tech. Elective 4 4				
			Elective	General Elective 5 4				
Year 4 (MD)	CIVE2324	Concrete Design *** 4	CIVE476x	Sr. Design Project 5				
	CIVE3000	Prof. Issues in Eng'g. 1	Elective	Civil Tech. Elective 3 4				
	CIVE3464	Prob./Eng'g. Econ. 4	Elective	Civil Tech. Elective 4 4				
	Elective	Civil Tech. Elective 2 4	Elective	General Elective 5 4				
	Elective	Science Elective 4						

Revised 3/30/2015

You will meet with an academic advisor to determine scheduling of these required classes:

Elective	General Elective 2	4
Elective	General Elective 3	4
Elective	General Elective 4	4
**ENGW3302	Adv. Writing for Prof.	4

* Course selection will be determined in consultation with your first-year advisor. Students are encouraged to use AP credit and transfer credits obtained prior to coming to Northeastern to take advantage of the 4-year, 2-coop program.

* [ENGW3315](#) is an acceptable substitution for engineering majors.

English course prefixes have changed from ENGL to ENG. ENG1111 is equivalent to ENGL1111. ENG3302 is equivalent to ENGL3302. Effective Fall 2014, the ENG 3301 course number will be retired. Students may take ENG 3302 or ENG 3315 to fulfill their Advanced Writing in the Technical Professions requirement. ENG 3301 will still count towards the Advanced Writing in the Technical Professions requirement if the course was taken prior to Fall 2014.

*** Steel Design is an acceptable substitution for Concrete Design. If this option is chosen, Steel Design will not count for a technical elective and student must complete 4 other technical electives one of which can include Concrete Design.

Students must fill elective slots with the following:

NU Core Elective Requirements: 2 required - (One Arts Lvl. 1 OR Humanities Lvl. 1) AND (One Social Science Lvl. 1 (Social Science Lvl. 1 fulfilled by either ECON1115 or ECON1116))

General Elective Requirements: 5 required - Any 4 SH course that is not remedial or repetitive

Science Elective: 1 required - See approved Science elective list

Civil Engineering Technical Electives (TE): 4 required - This must include either Foundation Engineering, Hydrologic Engineering or Highway Engineering

Capstones (Senior Design Project):

- CIVE4765 - Environmental capstone
- CIVE4767 - Structural capstone
- CIVE4768 - Transportation capstone

Electives may be interchanged. Please consult with your academic advisor.

The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.