

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING**  
**CURRICULUM OUTLINE - CLASS OF 2014, 2015, 2016, 2017**

	FALL		SPRING		SUMMER 1		SUMMER 2		
Year 1	MATH1341	Calculus 1 for Engrs.	4	MATH1342	Calculus 2 for Engrs.	4	Vacation	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 <b>OR</b> Humanities Lvl. 1	4	ENGL1111	College Writing	4				
Year 2 AA	MATH2321	Calculus 3 for Engrs.	4	MATH2341	Diff. Eq./Lin. Alg.	4	Vacation	Co-op	
	PHYS1155	Physics 2 for Engrs.	3	CIVE2000	Intro. to Eng'g. Co-op	1			
	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			
	CIVE2222	Recitation for CIVE2221	0	CIVE2321	Recitation for CIVE2320	0			
	CIVE2334	Environ. Eng'g. 1	4	ECON1115 or 1116 (NU Core)	Macro or Micro Economics (Social Science Lvl. 1)	4			
Year 2 BB	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	3						
	CIVE2261	Meas./Matls. Lab	2						
CIVE2334	Environ. Eng'g. 1	4							
Year 3 AA	Co-op			CIVE2331	Fluid Mechanics	4	**CIVE2324	Concrete Design	4
				CIVE2340	Soil Mechanics	4	Elective	General Elective 1	4
				CIVE2341	Soil Mechanics Lab	1	Co-op	Co-op	Co-op
				Elective	Civil Tech. Elective 1	3/4			
				Elective	Science Elective	4			
Year 3 BB	PHYS1155	Physics 2 for Engrs.	3	Co-op	Co-op	MATH2341	Diff. Eq./Lin. Alg.	4	
	PHYS1156	Physics 2 Lab	1			CIVE2340	Soil Mechanics	4	
	PHYS1157	ILS for PHYS1155	1			CIVE2341	Soil Mechanics Lab	1	
	CIVE2320	Struct. Analysis 1	4						
	CIVE2321	Recitation for CIVE2320	0						
	CIVE2331	Fluid Mechanics	4						
	ECON1115 or 1116 (NU Core)	Macro or Micro Economics (Social Science Lvl. 1)	4						
Year 4 AA	Co-op			CIVE3000	Prof. Issues in Eng'g.	1	Elective	General Elective 2	4
				CIVE3464	Prob./Eng'g. Econ.	4	Elective	General Elective 3	4
				Elective	Civil Tech. Elective 2	4	Co-op	Co-op	Co-op
				Elective	Civil Tech. Elective 3	4			
				*ENGL3302	Adv. Writing for Prof.	4			
Year 4 BB	**CIVE2324	Concrete Design	4	Co-op	Co-op	Elective	General Elective 1	4	
	CIVE3000	Prof. Issues in Eng'g.	1			Elective	General Elective 2	4	
	Elective	Civil Tech. Elective 1	3/4						
	Elective	Science Elective	4						
*ENGL3302	Adv. Writing for Prof.	4							
Year 5 AA	Co-op			CIVE476x	Sr. Design Project	5			
				Elective	Civil Tech. Elective 4	4			
				Elective	General Elective 4	4			
				Elective	General Elective 5	4			
Year 5 BB	CIVE3464	Prob./Eng'g. Econ.	4	CIVE476x	Sr. Design Project	5			
	Elective	Civil Tech. Elective 2	4	Elective	Civil Tech. Elective 4	4			
	Elective	Civil Tech. Elective 3	4	Elective	General Elective 4	4			
	Elective	General Elective 3	4	Elective	General Elective 5	4			

Revised 3/12/12

\*ENGL3301 is an acceptable substitution for engineering majors.

\*\*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 on Civil Department website

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 advisor: Tricia Lenihan - 220 Snell, 617-373-2154, t.lenihan@neu.edu