

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

	FALL		SPRING		SUMMER 1		SUMMER 2			
<b>Year 1</b>	MATH1341 CHEM1151 CHEM1153 GE1110 GE1000 NU Core	Calculus 1 for Engrs. General Chem. for Engrs. Recitation for CHEM1151 Eng'g. Design Intro. to Eng'g. Arts <b>OR</b> Humanities Lvl. 1	4 4 0 4 1 4	MATH1342 PHYS1151 PHYS1152 PHYS1153 GE1111 ENGL1111	Calculus 2 for Engrs. Physics 1 for Engrs. Physics 1 Lab ILS for PHYS1151 Eng'g. Prob. Solv. & Comp. College Writing	4 4 1 0 4 4	Vacation	Vacation		
<b>Year 2 AA</b>	MATH2321 PHYS1155 PHYS1156 PHYS1157 CIVE2221 CIVE2222 CIVE2334	Calculus 3 for Engrs. Physics 2 for Engrs. Physics 2 Lab ILS for PHYS1155 Statics & Strength Recitation for CIVE2221 Environ. Eng'g. 1	4 4 1 0 4 0 4	MATH2341 CIVE2000 CIVE2260 CIVE2261 CIVE2320 CIVE2321 ECON1115 or 1116 (NU Core)	Diff. Eq./Lin. Alg. Intro. to Eng'g. Co-op Materials Meas./Matls. Lab Struct. Analysis 1 Recitation for CIVE2320 Macro or Micro Economics (Social Science Lvl. 1)	4 1 3 2 4 0 4	Vacation	Co-op		
<b>Year 2 BB</b>	MATH2321 CIVE2000 CIVE2221 CIVE2222 CIVE2260 CIVE2261 CIVE2334	Calculus 3 for Engrs. Intro. to Eng'g. Co-op Statics & Strength Recitation for CIVE2221 Materials Meas./Matls. Lab Environ. Eng'g. 1	4 1 4 0 3 2 4	Co-op			Co-op	Vacation		
<b>Year 3 AA</b>	Co-op			CIVE2331 CIVE2340 CIVE2341 Elective Elective	Fluid Mechanics Soil Mechanics Soil Mechanics Lab Civil Tech. Elective 1 Science Elective	4 4 1 3/4 4	**CIVE2324 Elective	Concrete Design General Elective 1	4 4	Co-op
<b>Year 3 BB</b>	PHYS1155 PHYS1156 PHYS1157 CIVE2320 CIVE2321 CIVE2331 ECON1115 or 1116 (NU Core)	Physics 2 for Engrs. Physics 2 Lab ILS for PHYS1155 Struct. Analysis 1 Recitation for CIVE2320 Fluid Mechanics Macro or Micro Economics (Social Science Lvl. 1)	4 1 0 4 0 4 4	Co-op			Co-op	MATH2341 CIVE2340 CIVE2341	Diff. Eq./Lin. Alg. Soil Mechanics Soil Mechanics Lab	4 4 1
<b>Year 4 AA</b>	Co-op			CIVE3000 CIVE3464 Elective Elective *ENGL3302	Prof. Issues in Eng'g. Prob./Eng'g. Econ. Civil Tech. Elective 2 Civil Tech. Elective 3 Adv. Writing for Prof.	1 4 4 4 4	Elective Elective	General Elective 2 General Elective 3	4 4	Co-op
<b>Year 4 BB</b>	**CIVE2324 CIVE3000 Elective Elective *ENGL3302	Concrete Design Prof. Issues in Eng'g. Civil Tech. Elective 1 Science Elective Adv. Writing for Prof.	4 1 3/4 4 4	Co-op			Co-op	Elective Elective	General Elective 1 General Elective 2	4 4
<b>Year 5 AA</b>	Co-op			CIVE476x Elective Elective Elective	Sr. Design Project Civil Tech. Elective 4 General Elective 4 General Elective 5	5 4 4 4				
<b>Year 5 BB</b>	CIVE3464 Elective Elective Elective	Prob./Eng'g. Econ. Civil Tech. Elective 2 Civil Tech. Elective 3 General Elective 3	4 4 4 4	CIVE476x Elective Elective Elective	Sr. Design Project Civil Tech. Elective 4 General Elective 4 General Elective 5	5 4 4 4				

Revised 6/24/11

\*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