

**BACHELOR OF SCIENCE IN BIOENGINEERING - 4 Year 2 Co-op Plan
CURRICULUM OUTLINE - CLASS OF 2018, 2019**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Freshman Year 1	CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1000 Intro to Eng'g. 1 GE1110 Eng'g. Design 4 MATH1341 Calculus 1 for Engrs. 4 NU CORE Arts or Humanities Lvl. 1 4	ENGW1111 College Writing 4 GE1111 Eng'g. Prob. Solv.& Comp. 4 MATH1342 Calculus 2 for Engrs. 4 PHYS1171 Physics 1 BioE 3 PHYS1172 Physics 1 Lab 1 PHYS1173 ILS for PHYS1171 1	School *	Vacation
Year 2 (MC)	BIOE2365 BioE Inst. Mea. Imaging 4 BIOE2366 Lab for BIOE2365 1 BIOL1115 Biology 4 BIOL1116 Lab for BIOL1115 1 GE2361 Math. Methods for Engrs. 4 PHYS1175 Physics 2 for BioE 3 PHYS1176 Physics 2 Lab 1 PHYS1177 ILS for PHYS1175 1	BIOE2000 Intro to Eng'g, Co-op 1 BIOE2350 Biomechanics 4 BIOE2355 Quant. Physiology for BioE 4 CHEM2311 Organic Chemistry 1 4 CHEM2312 Lab for CHEM2311 1 CHEM2319 Recitation for CHEM2311 0 NU CORE Social Science Lvl. 1 4	BIOE3310 Transport & Fluids 4 Elective General Elective 1 4	Co-op
Year 3 (MC)	Co-op	BIOE3000 Prof. Issues in Eng'g. 1 BIOE3210 Bioelectricity 4 BIOE3380 Biomol. Dynamics & Ctrl. 4 Elective BioE Elective 1 4 Elective BioE Elective 2 4	BIOE4790 Capstone Design 1 4 Elective BioE Elective 3 4	Co-op
Year 4 (MC)	Co-op	BIOE4792 Capstone Design 2 4 Elective BioE Elective 4 4 Elective BioE Elective 5 4 Elective General Elective 2 4		

Revised 2/27/2015

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

Elective	General Elective 3	4
Elective	General Elective 4	4
Elective	General Elective 5	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.**

Students may take ENGW 3302 or ENGW 3315 to fulfill their Advanced Writing in the Technical Professions requirement.

NU Core Elective Requirements: 2 required- (one Arts Lvl 1 OR one Humanities Lvl 1) AND (one Social Science Lvl 1)

BIOE Electives: 5 required - 2 courses minimum from designated BIOE concentration; 3 from list of approved BIOE technical electives.

BIOE Concentrations: Bioimaging & Signal Processing, Cell & Tissue Engineering, Biomechanics, or Biomedical Devices.

General Electives: 5 required - Any 5 SH course that is not remedial or repetitive.

Electives may be interchanged. Please consult with Bioengineering academic advisor :

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