

BACHELOR OF SCIENCE IN BIOENGINEERING - 4 Year 2 Co-op Plan

CURRICULUM OUTLINE - CLASS OF 2020, 2021, 2022

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Freshman Year 1	MATH1342 Calculus 2 for Engrs. 4	GE2361 Math. Methods for Engrs. 4	Elective General Elective 4	Vacation
	CHEM1151 General Chem. for Engrs. 4	PHYS1171 Physics 1 for BioE 3	Elective General Elective 4	
	CHEM1153 Recitation for CHEM1151 0	PHYS1172 Physics 1 Lab 1		
	GE_1501 Cornerstone of Eng'g. 1 4	PHYS1173 ILS for PHYS1151 1		
	GE_1000 Intro. to Eng'g. 1	GE_1502 Cornerstone of Eng'g. 2 4		
	ENGW1111 College Writing 4	Elective General Elective 4		
Year 2 (MC)	BIOE2365 BioE Meas. Exp. & Stats. 4	BIOE2000 Intro to Eng'g, Co-op 1	BIOE3310 Transport & Fluids 4	Co-op
	BIOE2366 Lab for BIOE2365 4	BIOE2350 Biomechanics 4	Elective General Elective 4	
	BIOL1115 Biology 1	BIOE2355 Quant. Physiology for BioE 4		
	BIOL1116 Lab for BIOL1115 1	CHEM2311 Organic Chemistry 1 4		
	PHYS1175 Physics 2 for BioE 3	CHEM2312 Lab for CHEM2311 1		
	PHYS1176 Physics 2 Lab 1	CHEM2319 Recitation for CHEM2311 0		
	PHYS1177 ILS for PHYS1175 1	Elective General Elective 4		
	Elective General Elective 4			
Year 3 (MC)	Co-op	BIOE3000 Prof. Issues in Eng'g. 1	BIOE4790 Capstone Design 1 4	Co-op
		BIOE3210 Bioelectricity 4	Elective General Elective 4	
		BIOE3380 Biomol. Dynamics & Ctrl. 4		
		Elective BioE Elective 1 4		
		Elective BioE Elective 2 4		
Year 4 (MC)	ENGW3302 Adv Writing in the Tech Prof 4 <i>(to be taken online)</i>	BIOE4792 Capstone Design 2 4		
	Co-op	Elective BioE Elective 3 4		
		Elective BioE Elective 4 4		
		Elective BioE Elective 5 4		

Revised 7/16/17

You will need to have AP credit for Calc. AB (MATH1341 - Calculus 1 - 4 SH) - see advisor

*ENGW3315 is an acceptable substitution. Students may take ENGW 3302 or ENGW 3315 to fulfill their Advanced Writing in the Technical Professions requirement.

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses.

Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to do so.

General Electives are academic, non-remedial, non-repetitive courses.

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

BIOE Electives are used to fulfill the concentration. Total of 5 courses (3 required, 2 elective from approved list)

Please consult with your advisor: Eve Young - 220 Snell, 617-373-2154, e.young@neu.edu

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