

BIOENGINEERING DEPARTMENT
BS-MS PROGRAM IN BIOENGINEERING & ENGINEERING MANAGEMENT- CLASS OF 2021, 2022, 2023
Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Freshman Year 1	MATH1341 Calculus 1 for Engrs. 4	MATH1342 Calculus 2 for Engrs. 4		
	CHEM1151 General Chem. for Engrs. 4	PHYS1171 Physics 1 for Engrs. 3		
	CHEM1153 Recitation for CHEM1151 0	PHYS1172 Physics 1 Lab 1	Vacation	Vacation
	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 (AA)	BIOE2365 BioE Meas. Exp. & Stats. 4	BIOE2000 Intro. To Eng'g. Co-op 1		
	BIOE2366 Lab for BIOE2365 1	BIOE2350 Biomechanics 4		
	BIOL1115 Biology for Engineers 4	BIOE2355 Quant. Physiology for BioE 4		
	BIOL1116 Lab for BIOL1115 1	CHEM2311 Org. Chem 1 4	Vacation	Co-op
	GE2361 Math. Methods for Engrs 4	CHEM2312 Lab for CHEM2311 1		
	PHYS1175 Physics 2 for BioE 3	CHEM2319 Recitation for CHEM2311 0		
	PHYS1176 ILS for PHYS1175 1	Elective General Elective 4		
PHYS1177 Lab for PHYS1175 1				
Year 2 (BB)	BIOE2000 Intro to Eng'g. Co-op 1			
	BIOE2365 BioE Meas. Exp. & Stats. 4			
	BIOE2366 Lab for BIOE2365 1	Co-op	Co-op	Vacation
	BIOL1115 Biology for Engineers 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				
Year 3 (AA)	Co-op	BIOE3210 Bioelectricity 4	BIOE3310 Transport & Fluids 4	
		BIOE3380 Biomol. Dynamics & Ctrl. 4	Elective General Elective 4	Co-op
		Elective BioE Elective 1 4		
		*ENGW3302 Adv. Writing for Prof. 4		
Year 3 (BB)	BIOE2350 Biomechanics 4			BIOE3310 Transport & Fluids 4
	BIOE2355 Quant. Physiology for BioE 4			Elective General Elective 4
	CHEM2311 Organic Chemistry 1 4	Co-op	Co-op	
	CHEM2312 Lab for CHEM2311 1			
	CHEM2319 Recitation for CHEM2311 0			
	Elective General Elective 4			
Year 4 (YB)	Co-op	BIOE3000 Prof. Issues in Eng. 1	BIOE4790 Capstone Design 1 4	
		IE6200 Eng'g Prob & Statistics 4	Elective EM Graduate Elective 4	
		EMGT5220 Engineering Project Mgmt 4		Vacation
		Elective BioE Elective 2 4		
	Elective BioE Elective 3 4			
Year 4 (ZC)	BIOE3000 Prof. Issues in Eng'g. 1	IE6200 Eng'g Prob & Statistics 4		BIOE4790 Capstone Design 1 4
	BIOE3210 Bioelectricity 4	EMGT5220 Engineering Project Mgmt 4		Elective EM Graduate Elective 4
	BIOE3380 Biomol. Dynamics & Ctrl. 4	Elective BioE Elective 2 4	Vacation	
	Elective BioE Elective 1 4	Elective BioE Elective 3 4		
	*ENGW3302 Adv. Writing for Prof. 4			
Year 5 (YB)	OR6205 Deterministic Op. Rsrch. 4	BIOE4792 Capstone Design 2 4		
	Elective EM Graduate Elective 4	EMGT6225 Economic Decision Making 4		
	Elective EM Graduate Elective 4	Elective EM Graduate Elective 4		
	Elective BioE Elective 4 4	Elective BioE Elective 5 4		
Year 5 (ZC)	BIOE4792 Capstone Design 2 4	EMGT6225 Economic Decision Making 4		
	OR6205 Deterministic Op. Rsrch. 4	Elective EM Graduate Elective 4		
	Elective EM Graduate Elective 4	Elective EM Graduate Elective 4		
	Elective BioE Elective 4 4	Elective BioE Elective 5 4		

Revised 1/22/2016

[* ENG3315](#) is an acceptable substitution for engineering majors.

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.

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

Students will be required to meet with an undergraduate advisor to petition to enter the program.

Students are encouraged to meet with their financial aid counselor to review any financial questions.

4 semesters of coursework at Northeastern University must be completed with a minimum GPA of 3.2 to join the BS/MS program.

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