

**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	<a href="#">MATH1341</a> Calculus 1 for Engrs. 4	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4		
	<a href="#">CHEM1151</a> General Chem. for Engrs. 4	<a href="#">PHYS1171</a> Physics 1 for Engrs. 3		
	<a href="#">CHEM1153</a> Recitation for CHEM1151 0	<a href="#">PHYS1172</a> Physics 1 Lab 1	Vacation	Vacation
	<a href="#">GE_1501</a> Cornerstone of Eng'g. 1 4	<a href="#">PHYS1173</a> ILS for PHYS1151 1		
	<a href="#">GE_1000</a> Intro. to Eng'g. 1	<a href="#">GE_1502</a> Cornerstone of Eng'g. 2 4		
	<a href="#">ENGW1111</a> College Writing 4	Elective General Elective 4		
Year 2 (AA)	<a href="#">BIOE2365</a> BioE Meas. Exp. & Stats. 4	<a href="#">BIOE2000</a> Intro. To Eng'g. Co-op 1		
	<a href="#">BIOE2366</a> Lab for BIOE2365 1	<a href="#">BIOE2350</a> Biomechanics 4		
	<a href="#">BIOL1115</a> Biology for Engineers 4	<a href="#">BIOE2355</a> Quant. Physiology for BioE 4		
	<a href="#">BIOL1116</a> Lab for BIOL1115 1	<a href="#">CHEM2311</a> Org. Chem 1 4	Vacation	Co-op
	<a href="#">GE2361</a> Math. Methods for Engrs 4	<a href="#">CHEM2312</a> Lab for CHEM2311 1		
	<a href="#">PHYS1175</a> Physics 2 for BioE 3	<a href="#">CHEM2319</a> Recitation for CHEM2311 0		
	<a href="#">PHYS1176</a> ILS for PHYS1175 1	Elective General Elective 4		
<a href="#">PHYS1177</a> Lab for PHYS1175 1				
Year 2 (BB)	<a href="#">BIOE2000</a> Intro to Eng'g. Co-op 1			
	<a href="#">BIOE2365</a> BioE Meas. Exp. & Stats. 4			
	<a href="#">BIOE2366</a> Lab for BIOE2365 1	Co-op	Co-op	Vacation
	<a href="#">BIOL1115</a> Biology for Engineers 4			
	<a href="#">BIOL1116</a> Lab for BIOL1115 1			
	<a href="#">GE2361</a> Math. Methods for Engrs 4			
	<a href="#">PHYS1175</a> Physics 2 for BioE 3			
	<a href="#">PHYS1176</a> Physics 2 Lab 1			
<a href="#">PHYS1177</a> ILS for PHYS1175 1				
Year 3 (AA)	Co-op	<a href="#">BIOE3210</a> Bioelectricity 4	<a href="#">BIOE3310</a> Transport & Fluids 4	
		<a href="#">BIOE3380</a> Biomol. Dynamics & Ctrl. 4	Elective General Elective 4	Co-op
		Elective BioE Elective 1 4		
		<a href="#">*ENGW3302</a> Adv. Writing for Prof. 4		
Year 3 (BB)	<a href="#">BIOE2350</a> Biomechanics 4			<a href="#">BIOE3310</a> Transport & Fluids 4
	<a href="#">BIOE2355</a> Quant. Physiology for BioE 4			Elective General Elective 4
	<a href="#">CHEM2311</a> Organic Chemistry 1 4	Co-op	Co-op	
	<a href="#">CHEM2312</a> Lab for CHEM2311 1			
	<a href="#">CHEM2319</a> Recitation for CHEM2311 0			
	Elective General Elective 4			
Year 4 (YB)	Co-op	<a href="#">BIOE3000</a> Prof. Issues in Eng. 1	<a href="#">BIOE4790</a> Capstone Design 1 4	
		<a href="#">IE6200</a> Eng'g Prob & Statistics 4	Elective EM Graduate Elective 4	
		<a href="#">EMGT5220</a> Engineering Project Mgmt 4		Vacation
		Elective BioE Elective 2 4		
	Elective BioE Elective 3 4			
Year 4 (ZC)	<a href="#">BIOE3000</a> Prof. Issues in Eng'g. 1	<a href="#">IE6200</a> Eng'g Prob & Statistics 4		<a href="#">BIOE4790</a> Capstone Design 1 4
	<a href="#">BIOE3210</a> Bioelectricity 4	<a href="#">EMGT5220</a> Engineering Project Mgmt 4		Elective EM Graduate Elective 4
	<a href="#">BIOE3380</a> Biomol. Dynamics & Ctrl. 4	Elective BioE Elective 2 4	Vacation	
	Elective BioE Elective 1 4	Elective BioE Elective 3 4		
	<a href="#">*ENGW3302</a> Adv. Writing for Prof. 4			
Year 5 (YB)	<a href="#">OR6205</a> Deterministic Op. Rsrch. 4	<a href="#">BIOE4792</a> Capstone Design 2 4		
	Elective EM Graduate Elective 4	<a href="#">EMGT6225</a> 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)	<a href="#">BIOE4792</a> Capstone Design 2 4	<a href="#">EMGT6225</a> Economic Decision Making 4		
	<a href="#">OR6205</a> 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.