

**BACHELOR OF SCIENCE IN BIOENGINEERING - 4 Year 2 Co-op Plan  
CURRICULUM OUTLINE - CLASS OF 2023**

*Sample Only – Actual Curriculum Sequence May Deviate from Sample*

	FALL			SPRING			SUMMER 1		SUMMER 2
Year 1	<a href="#">MATH1342</a>	Calculus 2 for Engrs.	4	<a href="#">GE2361</a>	Math. Methods for Engrs.	4	Elective	General Elective	Vacation
	<a href="#">CHEM1151</a>	General Chem. for Engrs.	4	<a href="#">PHYS1171</a>	Physics 1 for BioE	3	Elective	General Elective	
	<a href="#">CHEM1153</a>	Recitation for CHEM1151	0	<a href="#">PHYS1172</a>	Physics 1 Lab	1			
	<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 (MC)	<a href="#">BIOE2365</a>	BioE Meas. Exp. & Stats.	4	<a href="#">ENCP2000</a>	Intro to Eng'g. Co-op	1	<a href="#">BIOE3310</a>	Transport & Fluids	Co-op
	<a href="#">BIOE2366</a>	Lab for BIOE2365	1	<a href="#">BIOE2350</a>	Biomechanics	4	Elective	General Elective	
	<a href="#">BIOL1115</a>	Biology	4	<a href="#">BIOE2355</a>	Quant. Physiology for BioE	4			
	<a href="#">BIOL1116</a>	Lab for BIOL1115	1	<a href="#">CHEM2311</a>	Organic Chemistry 1	4			
	<a href="#">PHYS1175</a>	Physics 2 for BioE	3	<a href="#">CHEM2312</a>	Lab for CHEM2311	1			
	<a href="#">PHYS1176</a>	Physics 2 Lab	1	Elective	General Elective	4			
	<a href="#">PHYS1177</a>	ILS for PHYS1175	1						
	Elective	General Elective	4						
Year 3 (MC)	Co-op			<a href="#">ENCP3000</a>	Prof. Issues in Eng'g.	1	<a href="#">BIOE4790</a>	Capstone Design 1	Co-op
				<a href="#">BIOE3210</a>	Bioelectricity	4	Elective	General Elective	
				<a href="#">BIOE3380</a>	Biomol. Dynamics & Ctrl.	4			
				Elective	BioE Elective 1	4			
				Elective	BioE Elective 2	4			
Year 4 (MC)	<a href="#">ENGW3302</a> Adv Writing in the Tech Pro <i>(to be taken online)</i>			<a href="#">BIOE4792</a>	Capstone Design 2	4			
	Co-op			Elective	BioE Elective 3	4			
				Elective	BioE Elective 4	4			
				Elective	BioE Elective 5	4			
				Elective	BioE Elective 5	4			

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

\* ENGW3315 is an acceptable substitution for engineering majors.

**NU**path Interpreting Culture (IC), Societies and Institutions (SI), Differences and Diversity (DD), Integration Experience (EX) are not explicitly satisfied by required 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:** Biomedical Devices & Bioimaging, Cell & Tissue Engineering, or Biomechanics.

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

[Please consult with your Academic Advisor, found here.](#)

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