

**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
Year 1	MATH1342	Calculus 2 for Engrs.	4	GE2361	Math. Methods for Engrs.	4	Vacation
	CHEM1151	General Chem. for Engrs.	4	PHYS1171	Physics 1 for BioE	3	
	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	ENCP2000	Intro to Eng'g. Co-op	1	Co-op
	BIOE2366	Lab for BIOE2365	1	BIOE2350	Biomechanics	4	
	BIOL1115	Biology	4	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	Elective	General Elective	4	
	PHYS1177	ILS for PHYS1175	1				
	Elective	General Elective	4				
Year 3 (MC)	Co-op			ENCP3000	Prof. Issues in Eng'g.	1	Co-op
				BIOE3210	Bioelectricity	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 (to be taken online) Co-op	4	BIOE4792	Capstone Design 2	4	
				Elective	BioE Elective 3	4	
				Elective	BioE Elective 4	4	
				Elective	BioE Elective 4	4	
				Elective	BioE Elective 5	4	

Revised 4/06/2020

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