BACHELOR OF SCIENCE IN BIOENGINEERING CURRICULUM OUTLINE - 2024

Sample Only – Actual Curriculum Sequence May Deviate from Sample

		FALL		SPRING			SUMMER 1			SUMMER 2	
	MATH1341	Calculus 1 for Engrs.	4 MATH1342	Calculus 2 for Engrs.	4		John Line			30	
	CHEM1151	General Chem. for Engrs.	4 PHYS1171	Physics 1 for BioE	3						
	CHEM1153	Recitation for CHEM1151	0 PHYS1172	Physics 1 Lab	1						
Year 1	GE 1501	Cornerstone of Eng'g. 1	4 PHYS1173	ILS for PHYS1151	1		Vacation			Vacation	
	GE 1000	Intro. to Eng'g.	1 GE 1502	Cornerstone of Eng'g. 2	1						
	ENGW1111	College Writing	4 Elective	General Elective	4						
	BIOE2365	BioE Meas. Exp. & Stats.	4 ENCP2000	Intro. To Eng'g. Co-op	1				1		
	BIOE2366	Lab for BIOE2365	1 BIOE2350	Biomechanics	1						
	BIOL1115	Biology for Engineers	4 BIOE2355	Quant. Physiology for BioE	4						
	BIOL1116	Lab for BIOL1115	1 CHEM2311	Org. Chem 1	4						
Year 2 (AA)	GE2361	Math. Methods for Engrs	4 CHEM2312	Lab for CHEM2311	1		Vacation			Со-ор	
	PHYS1175	Physics 2 for BioE	3 Elective	General Elective	1						
	PHYS1175	ILS for PHYS1175	5 Elective	General Elective	4						
	PHYS1176	Lab for PHYS1175	1								
	ENCP2000	Intro to Eng'g. Co-op	1								
	BIOE2365		1								
		BioE Meas. Exp. & Stats.	4								
	BIOE2366	Lab for BIOE2365	1								
Year 2 (BB)	BIOL1115	Biology for Engineers	4	Со-ор			Со-ор			Vacation	
1eai 2 (DD)	BIOL1116	Lab for BIOL1115	1	со-ор			со-ор			Vacation	
	GE2361	Math. Methods for Engrs	4								
	PHYS1175	Physics 2 for BioE	3								
	PHYS1176	Physics 2 Lab	1								
	PHYS1177	ILS for PHYS1175	1 0052240	Bir dan date		DIOFALA	Toronto de O. El Cido				
			BIOE3210 BIOE3380	Bioelectricity	4	BIOE3310	Transport & Fluids	4	1		
Year 3 (AA)		Со-ор		Biomol. Dynamics & Ctrl.	4	Elective	General Elective	4	+	Co-op	
			Elective	BioE Elective 1	4						
	DIOFACEO	D'a consideration	*ENGW330	Adv. Writing for Prof.	4				BIOE3310	Toward O. El. Mr.	
	BIOE2350 BIOE2355	Biomechanics	4							Transport & Fluids General Elective	4
Year 3 (BB)		Quant. Physiology for BioE	4	Со-ор			Со-ор		Elective	General Elective	4
rear 3 (DD)	CHEM2311 CHEM2312	Org. Chem 1 Lab for CHEM2311	4	со-ор			со-ор				
	Elective	General Elective	1								
	Elective	General Elective	ENCP3000	Prof. Issues in Eng.	1	BIOE4790	Capstone Design 1		1		
			Elective	BioE Elective 2	1	Elective	General Elective		<u>,</u>		
Year 4 (AA)		Со-ор	Elective	BioE Elective 3	4	Elective	General Elective	•	*	Со-ор	
rear 4 (AA)		со ор	Elective	BioE Elective 4	4					со ор	
			Elective	General Elective	4						
	BIOE3210	Bioelectricity	A LIECTIVE	GCHCI BI LIECTIVE	4				BIOE4790	Capstone Design 1	4
	BIOE3380	Bio. Dyn. & Ctrl.	4						Elective	General elective	4
Year 4 (BB)	Elective	BioE Elective 1	4	Со-ор			Со-ор		Licciac	Central elective	-
	*ENGW3302	Adv. Writing for Prof.	4								
	2.10113302		BIOE4792	Capstone Design 2	Λ						
			Elective	BioE Elective 5	4						
Year 5 (AA)		Со-ор	Elective	General Elective	4	İ					
			Elective	General Elective	1						
	ENCP3000	Prof. Issues in Eng'g,	1 Elective	BioE Elective 4	4						
	BIOE4792	Capstone Design 2	4 Elective	BioE Elective 5	4						
Year 5 (BB)	Elective	BioE Elective 2	4 Elective	General Elective	4						
(55)	Elective	BioE Elective 2	4 Elective	General Elective	4						
	Elective	General Elective	4	CCClui Elective	4						
	LICCLIVE	OCHICIOI LICCLIVE	4								

evised 4/6/2020

* ENGW3315 is an acceptable substitution for engineering majors.

NUpath 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.