BACHELOR OF SCIENCE IN BIOENGINEERING CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023

Sample Only – Actual Curriculum Sequence May Deviate from Sample

									1		
		FALL		SPRING			SUMMER 1			SUMMER 2	
	MATH1341	Calculus 1 for Engrs.	4 MATH1342	Calculus 2 for Engrs.	4						
Year 1	CHEM1151	General Chem. for Engrs.	4 PHYS1171	Physics 1 for BioE	3						
	CHEM1153	Recitation for CHEM1151	0 PHYS1172	Physics 1 Lab	1		Vacation		Vacation		
icui I	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	4						
	ENGW1111	College Writing	4 Elective	General Elective	4						
	BIOE2365	BioE Meas. Exp. & Stats.	4 ENCP2000	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						
Year 2 (AA)	BIOL1116	Lab for BIOL1115	1 CHEM2311	Org. Chem 1	4		Vacation			Со-ор	
	GE2361	Math. Methods for Engrs	4 CHEM2312	Lab for CHEM2311	1		racation			СООР	
	PHYS1175	Physics 2 for BioE	3 Elective	General Elective	4						
	PHYS1176	ILS for PHYS1175	1								
	PHYS1177	Lab for PHYS1175	1								
	ENCP2000	Intro to Eng'g. Co-op	1								
	BIOE2365	BioE Meas. Exp. & Stats.	4								
	BIOE2366	Lab for BIOE2365	1								
	BIOL1115	Biology for Engineers	4								
Year 2 (BB)	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								
		Со-ор	BIOE3210	Bioelectricity	4	BIOE3310	Transport & Fluids	4	1		
Year 3 (AA)			BIOE3380	Biomol. Dynamics & Ctrl.	4	Elective	General Elective	4	ı.	Со-ор	
,			Elective	BioE Elective 1	4						
			*ENGW3302	Adv. Writing for Prof.	4						
	BIOE2350	Biomechanics	4						BIOE3310	Transport & Fluids	4
V 2 (DD)	BIOE2355	Quant. Physiology for BioE	4				2		Elective	General Elective	4
Year 3 (BB)	CHEM2311	Org. Chem 1	4	Со-ор			Со-ор				
	CHEM2312	Lab for CHEM2311	1								
	Elective	General Elective	4	Don't have a la Face		DIOE 4700	Constant Design 4				
	1		ENCP3000	Prof. Issues in Eng.	1	BIOE4790	Capstone Design 1	4	1		
Year 4 (AA)	1	Со-ор	Elective	BioE Elective 2	4	Elective	General Elective	2	Ί	Со-ор	
icai 4 (AA)	1	со-ор	Elective Elective	BioE Elective 3	4					со-ор	
			Elective	BioE Elective 4	4						
	ENCP3000	Prof. Issues in Eng'g,	1	General Elective	4				BIOE4790	Capstone Design 1	
	BIOE3210	Bioelectricity	1						Elective	General elective	4
Year 4 (BB)	BIOE3210 BIOE3380	Bio. Dyn. & Ctrl.	4	Со-ор			Со-ор		Liective	General elective	4
(55)	Elective	BioE Elective 1	4	- CO OP			- CO OP				
	*ENGW3302	Adv. Writing for Prof.	4								
	2110113302	Aut. Tariting for Fron.	BIOE4792	Capstone Design 2	4						
	1	_	Elective	BioE Elective 5	4						
Year 5 (AA)	1	Со-ор		General Elective	4						
	1		Elective Elective	General Elective	4						
	BIOE4792	Capstone Design 2	4 Elective	BioE Elective 4	4						
/:	Elective	BioE Elective 2	4 Elective	BioE Elective 5	4						
Year 5 (BB)	Elective	BioE Elective 3	4 Elective	General Elective	4						
	Elective	General Elective	4 Elective	General Elective	4						

Revised 4/6/2020

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)

<u>Please consult with your Academic Advisor, found here.</u>
The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.

^{*} ENGW3315 is an acceptable substitution. Students may take ENGW 3302 or ENGW 3315 to fulfill their Advanced Writing in the Technical Professions requirement.