

Bachelor of Science in Biological Engineering

2018 – 2019

Year	Fall 2018					Spring 2019					Summer 2019				
Year	Fall 2019					Spring 2020					Summer 2020				
Year	Fall 2020					Spring 2021					Summer 2021				
Year	Fall 2021					Spring 2022					Summer 2022				
Freshman	Course		R	L	C	Course		R	L	C	Optional Co-op				
	ENGL1100	English I	4	0	4	ENGL2200	English II	4	0	4					
	MATH1750	Engineering Calculus I	4	0	4	MATH1850	Engineering Calculus II	4	0	4					
	PHYS1250	Engineering Physics I	3	2	4	BIOL1100	Cell and Molecular Biology	3	2	4					
	CHEM1100	Engineering Chemistry I	3	2	4	ENGR1500	Introduction to Engineering Design	1	4	3					
	ENGR1000	Introduction to Engineering	1	4	3	ENGR1800	Programming with MATLAB	0	2	1					
			15	8			ENGR1600	Fundamentals of CAD and CAM	0	2					
Total:					19	Total:					12	10	17		
Sophomore	Course		R	L	C	Course		R	L	C	Optional Co-op				
	MATH2500	Differential Equations	4	0	4	ELECTIVE	Humanities and Social Science	4	0	4					
	PHYS1750	Engineering Physics II	3	2	4	BMED4600	Biostatistics	4	0	4					
	BIOLxxx	Advanced Molecular Biology	3	2	4	CHEM1600	Engineering Chemistry II	3	2	4					
	BIOExxx	Fundamentals of Biological Eng	3	2	4	BIOExxx	Bio. Instr. & Measurement	3	2	4					
		13	6	16			14	4	16						
Junior	Course		R	L	C	Co-op I COOP 3500					Summer 2021				
	ELECTIVE	Humanities and Social Science	4	0	4						Course		R	L	C
	CHEM2500	Organic Chemistry	3	2	4						ELECTIVE	Humanities and Social Science	4	0	4
	BIOExxx	Genetics & Transgenetics	3	2	4						CHEMxxx	Biochemistry	3	2	4
	ENGRxxx	Bio-Elective / EPIC	3	2	4						BIOExxx	Biomaterials & Tissue Engineering	3	2	4
		13	6	16			12	8	16						
Senior	Co-op II COOP 4500					Spring 2022					Summer 2022				
						Course		R	L	C	Course		R	L	C
						ELECTIVE	Humanities and Social Science	4	0	4	ELECTIVE	Humanities and Social Science	4	0	4
						BIOExxx	Cell Physiology & Signaling	3	2	4	BIOLxxx	Synthetic Biology	3	2	4
						BIOExxx	Bio-Transport Phenomena	3	2	4	ENGRxxx	Bio-Elective / EPIC	3	2	4
						ENGR5000	Engineering Senior Design I	1	6	4	ENGR5500	Engineering Senior Design II	1	6	4
		11	10	16			11	10	16						
										Total Credits 132					