BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING

Biocomputing Track (Minor in Computer Science)
120 SCH
2019-20
Recommended Course of Study

Freshman Year

Fall				**Spring**		
CHEM 1410	General Chemistry	3		PHYS 1710	Mechanics	3
CHEM 1430	General Chemistry Laboratory	1		PHYS 1730	Laboratory in Mechanics	1
ENGL 1310	College Writing I OR	3		HIST 2610	History I	3
TECM 1700	Intro to Technical Writing	3		TECM 2700	Technical Writing	3
BMEN 1300	Discover BMEN	3		MATH 1720	Calculus II	3
MATH 1710	Calculus I	4		BMEN 1400	Software for Biomedical Engineers	4
PSCI 2306	American Government	3				17
		17				

Sophomore Year

Fall				**Spring**		
CSCE 1030	Computer Science I	3		BMEN 2320	Biomedical Instrumentation I	3
MATH 2700	Linear Algebra	3		MATH 3410	Differential Equations	3
PHYS 2220	Electricity and Magentism	3		CSCE 1040	Computer Science II	3
PHYS 2240	Physics II lab	1		XXXX	Lang Phil Culture	3
BMEN 2210	Biomed DAQ Practises	3		XXXX	Visual and Performing Arts	3
PSCI 2305	American Government	3				
		16				15

Junior Year

Fall				**Spring**		
MATH 2730 OR	Multivariate calculus	3		BMEN 3312	Introduction to Biomechanics	3
				MATH3680	Statistics and probability	3
MATH 3350	Intro to Numerical Analysis	3		BMEN 3321	Biomaterials	3
BMEN 3311	Biomedical Signal Analysis	3		HIST 2620	History II	3
BMEN 3350	Biomed Transport Phenom	3		CSCE 2110	Computing Foundations II	3
BMEN 3310	Human Systems	3				
CSCE 2100	Computing Foundations I	3				
		15				15

Senior Year

Fall				**Spring**		
BMEN 4310	Biomedical Modeling	3				
XXXX	CSCE ELECTIVE	3		BMEN XXXX	Advanced Topic in BMEN	3
BMEN 4212	Senior Design I	1		BMEN 4222	Senior Design II	3
BMEN XXXX	Advanced Topic in BMEN	3		BMEN XXXX	Advanced Topic in BMEN	3
XXXX	Social and Behavioral Sciences	3		XXXX	CSCE ELECTIVE	3
		13				12

University Core Courses in Green; Required courses in black; Prescribed electives in red; Free Electives in blue