BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING

Biomechanics Track (Minor in Mechanical and Energy Engineering)

(120 + 3) SCH

2018-19

Recommended Course of Study

Freshman Year

Fall			Spring		
BIOL 2301	Anatomy and Physiology I	3	PHYS 1710	Mechanics	3
BIOL 2311	Anatomy and Physiology lab	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		
MEEN 2301	Mechanics I	3	BMEN 2320	Biomedical Instrumentation I	3
MATH 2700	Linear Algebra	3	MATH 3410	Differential Equations	3
CHEM 1410	General Chemistry	3	MEEN 2302	Mechanics II	3
CHEM 1430	General Chemistry Laboratory	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	Multivariate calculus	3	BMEN 3312	Introduction to Biomechanics	3
OR			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	MEEN 2332	Mechanics III	3
BMEN 3310	Human Systems	3			
MEEN 2210	Thermodynamics	3			
		15			15

Senior Year

Fall			Spring		
BMEN 4310	Biomedical Modeling	3			
XXXX	MEEN 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	MEEN ELECTIVE	3
			***XXXX	MEEN ELECTIVE	3
		13			15

*** To get MEEN minor

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