

BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING

Biomaterials Track (Minor in Materials Science and Engineering)

120 SCH

2018-19

Recommended Course of Study

Freshman Year

<u>Fall</u>		<u>Spring</u>		
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		
		<u>17</u>		17

Sophomore Year

<u>Fall</u>		<u>Spring</u>		
MTSE 3000	Fundamentals of MTSE	3	BMEN 2320 Biomedical Instrumentation I	3
MATH 2700	Linear Algebra	3	MATH 3410 Differential Equations	3
CHEM 1410	General Chemistry	3	XXXX MTSE ELECTIVE	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

<u>Fall</u>		<u>Spring</u>		
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	XXXX MTSE ELECTIVE	3
BMEN 3310	Human Systems	3		
XXXX	MTSE ELECTIVE	3		
		15		15

Senior Year

<u>Fall</u>		<u>Spring</u>		
BMEN 4310	Biomedical Modeling	3		
XXXX	MTSE 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 MTSE ELECTIVE	3
		13		12

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