

BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING

BMEN

Biomaterials Track: Minor in Material Science and Engineering (MTSE)

2016-17

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	3	CSCE 1030	Computer Science I	4
BMEN 1300	Discover BMEN	3	TECM 2700	Technical Writing	3
MATH 1710	Calculus I	4	MATH 1720	Calculus II	3
PSCI 1040	American Government	<u>3</u>	PSCI 1050	American Government	3

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Sophomore Year

Fall

Spring

XXXX	Elective - ENGR 3450	3	BMEN 2320	Biomedical Instrumentation I	4
MATH 2730	Multivariate calculus	3	MATH 2700	Linear Algebra	3
EENG 2610	Circuit Analysis	3	XXXX	Elective - MTSE 3010	3
PHYS 2220	Electricity & Magnetism	3	EENG 2710	Digital Logic	3
PHYS 2240	Lab in WM, Elec, Mag & Optics	1			
BMEN 2210	Biomed DAQ Practices	<u>2</u>			

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Junior Year

Fall

Spring

MATH 3410	Differential Equations	3	BMEN 3312	Introduction to Biomechanics	<u>3</u>
BMEN 3311	Biomedical Signal Analysis	3	MATH3680	Statistics and Probability	3
BMEN3310	Human Systems	3	BMEN 3321	Biomaterials	3
XXXX	Language Philosophy and Culture	3	HIST 2610	History I	3
XXXX	Elective - MTSE 3030 or MTSE 3050 or MTSE 3070	3	XXXX	Elective - MTSE 3000 Level Course	3

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Senior Year

Fall

Spring

BMEN 4310	Biomedical Modeling	3	HIST 2620	History II	3
XXXX	Elective	3	BMEN 4321	Advanced Topic in BMEN	3
BMEN 4212	Senior Design I	<u>1</u>	BMEN 4222	Senior Design II	3
BMEN 4311	Advanced Topic in BMEN	3	XXXX	Visual and Performing Arts	<u>3</u>
XXXX	Social and Behavioral Sciences	3	XXXX	Elective	3

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