

**BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING**  
**STUDENTS ENTERING WITH PRE-CALCULUS**

2016-17

Recommended Course of Study

**Freshman Year**

<b><u>Fall</u></b>		<b><u>Spring</u></b>		
MATH 1650	Pre-calculus	5	HIST 2610 History I	3
XXXX	Communication Core	3	MATH 1710 Calculus I	4
BMEN 1300	Discover BMEN	3	PSCI 1040 American Government	3
CHEM 1410	General Chemistry	3	TECM 2700 Technical Writing	3
CHEM 1430	General Chemistry Lab	1	XXXX Language Philosophy and Culture	3
		15	16	
<b><u>Summer</u></b>				
MATH 1720	Calculus II	3	PHYS 1710 Mechanics	3
			PHYS 1730 Laboratory in Mechanics	1

**Sophomore Year**

<b><u>Fall</u></b>		<b><u>Spring</u></b>		
XXXX	Elective	3	BMEN 2320 Biomedical Instrumentation I	4
CSCE 1030	Computer Science I	4	MATH 2700 Linear Algebra	3
EENG 2610	Circuit Analysis	3	XXXX Elective	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	2		
		16	13	

**Junior Year**

<b><u>Fall</u></b>		<b><u>Spring</u></b>		
MATH 2730	Multivariate Calculus	3	BMEN 3312 Introduction to Biomechanics	3
BMEN 3311	Biomedical Signal Analysis	3	MATH3680 Statistics and Probability	3
BMEN3310	Human Measurements	3	BMEN 3321 Biomaterials	3
XXXX	Elective	3	MATH 3410 Differential Equations	3
PSCI 1050	American Government	3	XXXX Elective	3
		15	15	

**Senior Year**

<b><u>Fall</u></b>		<b><u>Spring</u></b>		
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	1	BMEN 4222 Senior Design II	3
BMEN 4311	Advanced Topic in BMEN	3	XXXX Visual and Performing Arts	3
XXXX	Social and Behavioral Sciences	3	XXXX Elective	3
		13	15	

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