

BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING

BMEN

Biomedical Instrumentation: Electrical Engineering (EENG) Minor

2016-17

Recommended Course of Study

Freshman Year

Fall

CHEM 1410	General Chemistry	3
CHEM 1430	General Chemistry Laboratory	1
ENGL 1310	College Writing I	3
BMEN 1300	Discover BMEN	3
MATH 1710	Calculus I	4
PSCI 1040	American Government	<u>3</u>

Spring

PHYS 1710	Mechanics	3
PHYS 1730	Laboratory in Mechanics	1
CSCE 1030	Computer Science I	4
TECM 2700	Technical Writing	3
MATH 1720	Calculus II	3
PSCI 1050	American Government	3

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Sophomore Year

Fall

XXXX	Free Elective	3
MATH 2730	Multivariate calculus	3
EENG 2610	Circuit Analysis	3
PHYS 2220	Electricity & Magnetism	3
PHYS 2240	Lab in WM, Elec, Mag & Optics	1
BMEN 2210	Biomed DAQ Practices	<u>2</u>

Spring

BMEN 2320	Biomedical Instrumentation I	4
MATH 2700	Linear Algebra	3
XXXX	Free Elective	3
EENG 2710	Digital Logic	3

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Junior Year

Fall

MATH 3410	Differential Equations	3
BMEN 3311	Biomedical Signal Analysis	3
BMEN3310	Human Systems	3
XXXX	Language Philosophy and Culture	3
XXXX	Elective - EENG 2620	3

Spring

BMEN 3312	Introduction to Biomechanics	<u>3</u>
MATH3680	Statistics and Probability	3
BMEN 3321	Biomaterials	3
HIST 2610	History I	3
XXXX	Elective - EENG 2910 or EENG 292	3

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Senior Year

Fall

BMEN 4310	Biomedical Modeling	3
XXXX	Elective - EENG 3510	3
BMEN 4212	Senior Design I	<u>1</u>
BMEN 4311	Advanced Topic in BMEN	3
XXXX	Social and Behavioral Sciences	3

Spring

HIST 2620	History II	3
BMEN 4321	Advanced Topic in BMEN	3
BMEN 4222	Senior Design II	3
XXXX	Visual and Performing Arts	<u>3</u>
XXXX	Elective - EENG 4000 level course	3

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***Free elective - any course from EENG or CSCE and/or ENGR 2750

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