

BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING

BMEN

Bioinformatics Track: Minor in Computer Science and Engineering (CSCE)

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	3	PSCI 1050	American Government	3
		17			17

Sophomore Year

Fall

Spring

XXXX	Elective - CSCE 1040	3	BMEN 2320	Biomedical Instrumentation I	4
MATH 2730	Multivariate calculus	3	MATH 2700	Linear Algebra	3
EENG 2610	Circuit Analysis	3	XXXX	Elective - CSCE 2100	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			
		15			13

Junior Year

Fall

Spring

MATH 3410	Differential Equations	3	BMEN 3312	Introduction to Biomechanics	3
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 - CSCE 2110	3	XXXX	Elective - CSCE 3850	3
		15			15

Senior Year

Fall

Spring

BMEN 4310	Biomedical Modeling	3	HIST 2620	History II	3
XXXX	Elective - CSCE 4810	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 - CSCE 4820	3
		13			15

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