

BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL ENGINEERING

Pre-Med Track = Biotech track + extra courses

(125/126 + Pre-med Requirement) SCH

2019-20

Recommended Course of Study

Freshman Year

<u>Fall</u>		<u>Spring</u>			
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 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	<u>3</u>			
		17			17

Sophomore Year

<u>Fall</u>		<u>Spring</u>			
BIOL 1710	Principles of Biology I	3	BMEN 2320	Biomedical Instrumentation I	3
MATH 2700	Linear Algebra	3	MATH 3410	Differential Equations	3
CHEM 1420	General Chemistry II	3	BIOL 1720	Biology II	3
CHEM 1440	General Chemistry II Laboratory	1	XXXX	Lang Phil Culture	3
BMEN 2210	Biomed DAQ Practises	3	XXXX	Visual and Performing Arts	<u>3</u>
PSCI 2305	American Government	3	BIOL 1760	Biology Lab	2
		16			17

Junior Year

<u>Fall</u>		<u>Spring</u>			
MATH 2730	Multivariate calculus	3	BMEN 3312	Introduction to Biomechanics	<u>3</u>
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	BIOL 2041	Microbiology	3
BMEN 3310	Human Systems	3	BIOL 2042	Microbiology Lab	1
CHEM 2370/8	Organic Chemistry I with Lab	4			
		16			16

Senior Year

<u>Fall</u>		<u>Spring</u>			
BMEN 4310	Biomedical Modeling	3	BMEN XXXX	Advanced Topic in BMEN	3
BIOL 3451	Genetics	3	BMEN 4222	Senior Design II	3
BIOL 3452	Genetics Lab	1	BMEN XXXX	Advanced Topic in BMEN	3
BMEN 4212	Senior Design I	<u>1</u>	XXXX	BIOL/BIOC ELECTIVE	3
BMEN XXXX	Advanced Topic in BMEN	3			
XXXX	Social and Behavioral Sciences	3			
		14			12

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

***** THIS DEGREE PLAN MAY TAKE MORE THAN 4 YEARS TO COMPLETE*****

CHECK PRE-MED CATALOG FOR ADDITIONAL COURSES