

BME UNDERGRADUATE CURRICULUM**PRE-MEDICAL****201 units**

FRESHMAN		units		units		units
Fall			Winter		Spring	
MAT 21A Calculus	4		MAT 21B Calculus	4	MAT 21C Calculus	4
CHE 2A General Chemistry	5		CHE 2B General Chemistry	5	CHE 2C General Chemistry	5
BIM 1 Intro to BME	2		ENG 6 MATLAB	4	PHY 9A Classical Physics	5
Lower Division Composition	4		GE elective		GE elective	
SOPHOMORE						
Fall			Winter		Spring	
MAT 21D Vector Analysis	4		MAT 22A Linear Algebra	3	MAT 22B Differential Equations	3
CHE 118A Organic Chemistry	4		CHE 118B Organic Chemistry	4	CHE 118C Organic Chemistry	4
PHY 9B Classical Physics	5		PHY 9C Classical Physics	5	BIM 20 Fundamentals of Bioengineering	4
BIS 2A Life on Earth	5		SE: BIS 2B Ecology & Evolution	5	SE: BIS 2C Tree of Life	5
JUNIOR						
Fall			Winter		Spring	
BIM 105 Probability and Stats for BME	4		BIM 106 Biotransport	4	BIM 108 Biomedical Signals and Control	4
NPB 101 Physiology	5		ENG 100 Electronic Circuits and Systems	3	BIM 109 Biomaterials	4
ENG 17 Circuits I	4		BIS 102 Structure & Function of Biomolecules	3	EE: BIM 142 Biomedical Imaging	4
GE elective			Upper Division Composition Course=4 units, Exam=0 units	4/0	BIS 103 Bioenergetics and Metabolism	3
SENIOR						
Fall			Winter		Spring	
BIM 110L BME Senior Design Lab	2		BIM 110A BME Senior Design	3	BIM 110B BME Senior Design	3
BIM 111 Biomedical Instrumentation Lab	6		EE: BIM 145/189A Immuno-engineering	4	ENG 190 Professional Responsibility Engineers	3
EE: BIM 173 Cell and Tissue Engineering	4		EE: BIM 120/189C Intro to Materials Science for BME	4	EE: BIM 163 Bioelectricity, Biomechanics and Signaling Systems	4
EE: BIM 171 Clinical App for Biomedical Device Design	4		GE elective		ENG 105 Thermodynamics	4
GE elective			GE elective		GE elective	

Engineering electives listed are merely recommendations. You may choose your own electives.

Requirements for medical schools vary so look at their individual websites, and visit Health Professions Advising at hpa.ucdavis.edu.

Non-Science courses – 1 year English. For MCAT Prep - PSC 1; SOC 1,3,or 154

Use Summer Sessions to lighten this course load.