

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	BIM 089C/20L* CAD for BME	2
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	ENG 105 Thermodynamics	4
SE: BIS 2C Tree of Life	5	Upper Division Composition Course=4 units, Exam=0 units	4/0	BIS 103 Bioenergetics and Metabolism	3
		GE elective			
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 Immuno-engineering	4	ENG 190 Professional Responsibility Engineers	3
EE: BIM 173 Cell and Tissue Engineering	4	EE: BIM 120 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		EE: BIM 142 Biomedical Imaging	4
GE elective		GE elective		GE elective	

***BIM 089C/BIM 20L must be taken concurrently with BIM 20**

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

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

Non-Science courses – 1 year English (ENL, UWP or Comp Lit), PSC 1; SOC 3

Use Summer Sessions to lighten this course load.