## BME UNDERGRADUATE CURRICULUM

## PRE-MEDICAL

202 units

FRESHMAN	units		units		units
Fall		Winter		Spring	
MAT 21A Calculus	4	MAT 21B Calculus	4	MAT 21C Calculus	4
CHE 2A	5	CHE 2B	5	CHE 2C	5
General Chemistry	"	General Chemistry	J 3	General Chemistry	
BIM 1	2	ENG 6	4	PHY 9A	5
Intro to BME	_	Eng. Problem Solving	1	Classical Physics	
Lower Division Composition	4	GE elective		GE elective	
CORLIGHORE					
SOPHOMORE Fall		Winter		Coring	
		Winter	0/4	Spring	0/4
MAT 21D Vector Analysis	4	MAT 22A or 27A Linear Algebra	3/4	MAT 22B or 27B Differential Equations	3/4
CHE 118A	4	CHE 118B	4	CHE 118C	4
Organic Chemistry		Organic Chemistry		Organic Chemistry	
PHY 9B	5	PHY 9C	5	BIM 20 Fundamentals of	4
Classical Physics		Classical Physics		Bioengineering	
BIS 2A	5	SE: BIS 2B	5	BIM 20L	2
Life on Earth		Ecology & Evolution		Graphics Design for BME	
JUNIOR					
Fall		Winter		Spring	
BIM 105 Probability &	4	BIM 106	4	BIM 108 Biomedical	4
Data Science for BME	-	Biotransport Phenomena	-	Signals & Control	-
NPB 101	5	BIM 107 Mfg Processes for	2	BIM 109	4
Physiology		BME		Biomaterials	
ENG 17/17V	4	BIS 102 Structure &	3	ENG 105	4
Circuits I	-	Function of Biomolecules		Thermodynamics	-
SE: BIS 2C Biodiversity & Tree of Life	5	ENG 100 Electronic Circuits & Systems	3	BIS 103 Bioenergetics & Metabolism	3
		Upper Division Composition Course=4 units, Exam=0 units		GE elective	
SENIOR					
Fall		Winter		Spring	
BIM 110A	3	BIM 110B	3	BIM 110C	3
BME Senior Design		BME Senior Design		BME Senior Design	
BIM 111 Biomedical	6	EE: BIM 144 Principles of	4	ENG 190 Professional	3
Instrumentation Lab		Biophotonics		Responsibilities of Engineers	
EE: BIM 174 Microcontroller	2	EE: BIM 172 Intro to	2	EE: BIM 163 Bioelectricity,	4
Applications Lab	_	Neuroengineering Lab		Biomechanics & Signaling Systems	
EE: BIM 171 Clinical App for	4	GE elective		EE: BIM 142 Principles & Practices of Biomedical Imaging	4
Biomedical Device Design GE elective		GE elective		GE elective	1
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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. Might want to take STA 100 as BIM 105 is more focused on Probability.

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

Use Summer Sessions to lighten this course load.