

BME Undergraduate Track: Sample Premed Curriculum (min 202 units recommended) *

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	1	ENG 6: Computer Problem Solving	4	PHY 9A: Classical Physics	5		
UWP1 or ENL3: English Lit	4	CMN1: Intro to Public Speaking	4	** GE Elective	4		
** GE Elective	4						
min units	18		17		18		
SOPHOMORE		units		units		units	
Fall			Winter			Spring	
MAT 21D: Vector Analysis	4	MAT 22A: Linear Algebra	3	MAT 22B: Differential Equations	3		
CHE 118A: Organic Chemistry	4	† SE: CHE 118B: Organic Chemistry	4	† SE: CHE 118C: Organic Chemistry	4		
PHY 9B: Classical Physics	5	PHY 9C: Classical Physics	5	BIM 20: Fundamentals of Bioengineering	4		
BIS 2A: Introductory Biology	4	SE: BIS 2B: Introductory Biology	5	** GE Elective	4		
min units	17		17		15		
JUNIOR		units		units		units	
Fall			Winter			Spring	
BIM 105: Stats and Probability for BME	4	BIM 106: Biotransport	4	BIM 108: Sig and Sys	4		
NPB 101: Systemic Physiology	5	BIM 107: Math Methods	4	BIM 109: Biomaterials	4		
ENG 17: Circuits	4	ENG 100: Electronic Circuits/Systems	3	EE: BIM141 Cell & Tissue Mechanics or other UD BIM	4		
SE: BIS 2C: Introductory Biology	5	† SE: BIS 101: Genes and Gene Expression	4	UWP 101, 102, or 104	4		
min units	18		15		16		
SENIOR		units		units		units	
Fall			Winter			Spring	
ENG 105: Thermo	4	BIM 110A: Capstone Design	2	BIM 110B: Capstone Design	2		
† SE: MCB 160L: Prin Genetics Lab (4) or NPB 101L: System Physiol Lab (3)	4 (3)	BIM 111: Biomedical Instrumentation Lab	6	ENG 190: Professional Respons. Engrs.	3		
EE: BIM 102 Quantitative Cell Bio or other UD BIM (4)	4	† SE: BIS 102: Structure & Function of Biomolecules	3	EE: BIM 142 Imaging or other UD BIM	4		
EE: BIM 173 Tissue Engineering or other UD BIM(4)	4	EE: BIM 162 Quant Biomol Engr or other UD BIM	4	** GE Elective	4		
** GE Elective	4			** GE Elective	4		
min units	19-20		15		17		

* Minimum 180 units required for BME major. Minimum 202 recommended for premed. Students are encouraged to use one or more summer sessions to lighten their load as additional courses are necessary to both fulfill BME requirements and be competitive for medical school.

† Additional SE recommended for medical school preparation (e.g. BIS 101, BIS 102, and MCB 160L or NPB 101L). BIM 161A and 161L satisfy SE and **may be acceptable** as an alternative to lab course (MCB 160L or NPB 101L). Check program specific requirements.

‡ CHE 118B/C count as a total of 6 SE while also satisfying BME req.

** Minimum of 24 units (6 courses) of GE Elective req.--3 of these in arts and humanities and 3 in social sciences. Of these 3 must contain writing components (W), 1 contain diversity component (D) and 2 be upper division. Consider courses in ENL, COM, SAS, STS that contain both W and D components. As a full year of English is required for med school, premeds are strongly encouraged to take an ENL or COM GE.

Revised February 2008