

BME UNDERGRADUATE CURRICULUM

Biomechanics

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	BIS 2A Intro to Biology	5	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 8A Organic Chemistry	2	CHE 8B Organic Chemistry	4	BIM 20 Fundamentals of Bioengineering	4
PHY 9B Classical Physics	5	PHY 9C Classical Physics	5	ENG 17 Circuits I	4
ENG 6 MATLAB	4	GE elective		GE elective	
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 Circuits II	3	BIM 109 Biomaterials	4
EE: ENG 35 Statics	4	EE: ENG 102 Dynamics	4	SE: NPB 109 Kinesiology	4
Upper Division Composition Course=4 units, Exam=0 units	4/0	GE elective		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 120/189C Introduction to Materials Science for BME	4	EE: EBS 128 Biomechanics/Ergonomics	4
SE: EXB 101: Exercise Physiology	4	EE: BIM 141 Cell & Tissue Mechanics	4	EE: ENG 104 Mechanics of Materials	4
ENG 105 Thermodynamics	4	ENG 190 Professional Responsibility Engineers	3	GE elective	

Cellular-tissue Biomechanics - SE: BIM 102, 161A and EE: ENG 35, 102/104, BIM 141, 162, 163, 167
 Additional courses: SE - CHA 101 and 101L Human Gross Anatomy (7 units) Winter or Spring
 Use Summer Sessions to lighten this course load

September 2018