BME UNDERGRADUATE CURRICULUM

Medical Devices

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		General Chemistry	
BIM 1	2	BIS 2A	5	PHY 9A	5
Intro to BME	_	Intro to Biology		Classical Physics	
Lower Division Composition	4	GE elective		GE elective	
SOPHOMORE					
Fall		Winter		Spring	
MAT 21D	4	MAT 22A	3	MAT 22B	3
Vector Analysis		Linear Algebra	1	Differential Equations	
CHE 8A	2	CHE 8B	4	BIM 20 Fundamentals of	4
Organic Chemistry	_	Organic Chemistry] -	Bioengineering	-
PHY 9B	5	PHY 9C	5	BIM 089C/20L*	2
Classical Physics		Classical Physics	-	CAD for BME	_
ENG 6 MATLAB	4	EE: ENG 35 Statics	4	ENG 17	4
	_	22. 2.10 00 0.0.00	_	Circuits I	
				Circuite 1	
JUNIOR					
		Minton		0	
Fall	1	Winter		Spring	
BIM 105 Probability and	4	BIM 106	4	BIM 108 Biomedical	4
Stats for BME		Biotransport		Signals and Control	
BIM 116	5	ENG 100	3	BIM 109 Biomaterials	4
Physiology		Circuits II			
SE: ECS 32A	4	SE: ECS 32B	4	EE: BIM 167 Biomedical Fluid Mechanics	4
Upper Division Composition Course=4 units, Exam=0 units	4/0	EE: BIM 170 Aspects of Medical Device Design & Manufacturing	2	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 Intro to Materials Science for BME	4	ENG 104 Mechanics of Materials	4
EE: BIM 171 Clinical Applications for Biomedical Device Design	4	EE: BIM 189C Intro to Rapid Prototyping	2	GE elective	
EE: ENG 105 Thermodynamics	4	ENG 190 Professional Responsibility Engineers	3	GE elective	
		GE elective			
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^{*}BIM 089C/BIM 20L must be taken concurrently with BIM 20

Other courses: EE - BIM Skills Modules - 174 Microcontrollers, 189C/175 Metalworking, 176 Microfluidics,

189C Neuroengineering ENG 102 Dynamics