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		Differential Equations	
CHE 8A	2	CHE 8B	4	BIM 20 Fundamentals of	4
Organic Chemistry	<u></u>	Organic Chemistry		Bioengineering	
PHY 9B	5	PHY 9C	5	BIM 020L	2
Classical Physics		Classical Physics		Graphics for BME	
ENG 6 MATLAB	4	GE elective		ENG 17	4
				Circuits I	
JUNIOR					
		VAL - 4		0	
Fall		Winter		Spring	
BIM 105 Probability for	4	BIM 106	4	BIM 108 Biomedical	4
BME		Biotransport		Signals and Control	
BIM 116/NPB 101 Physiology	5	BIM 107 Mfg for BME	2	BIM 109 Biomaterials	4
SE: ECS 32A	4	ENG 100	3	EE: ENG 35	4
32. 233 32. (-	Circuits		Statics	-
Upper Division Composition Course=4 units, Exam=0 units	4/0	SE: ECS 32B	4	GE elective	
SENIOR		381° 4		0	
Fall		Winter		Spring	
BIM 110A BME Senior	3	BIM 110B BME Senior	3	BIM 110C BME Senior	3
Design		Design		Design	
BIM 111 Biomedical	6	EE: ENG 102	4	EE: ENG 104	4
Instrumentation Lab		Dynamics		Mechanics of Materials	
EE: BIM 171 Clinical	4	EE: BIM 177 Intro to	_	ENG 105	4
Applications for Riomedical		Rapid Prototyping	2	Thermodynamics	
Applications for Biomedical Device Design					
	2	GE elective		ENG 190 Professional	3
Device Design	2	GE elective		ENG 190 Professional Responsibility Engineers	3

Other courses: ENG 102 Dynamics
EE - BIM Skills Modules – 172 Neuroengineering, 174 Microcontrollers,
BIM 177 Rapid Prototyping, BIM 189C Cell Culture Techniques