BME UNDERGRADUATE CURRICULUM

Imaging

units		units		units
	Winter		Spring	
4	MAT 21B Calculus	4	MAT 21C Calculus	4
5	CHE 2B	5	CHE 2C	5
-	General Chemistry		General Chemistry	
2	BIS 2A	5	PHY 9A	5
	Intro to Biology		Classical Physics	
4	GE elective		GE elective	
	Winter		Spring	
4	MAT 22A or MAT 27A	3/4	MAT 22B or MAT 27B	3/4
	Linear Algebra		Differential Equations	
2/4	CHE 8B or CHE 118B	4	BIM 20 Fundamentals of	4
	Organic Chemistry		Bioengineering	
5	PHY 9C	5	BIM 20L	2
	Classical Physics		Graphics Design for BME	
4	GE elective			4
			Circuits I	
	Winter		Spring	
4	BIM 106	4	BIM 108 Biomedical	4
	Biotransport Phenomena		Signals & Control	
5	BIM 107 Mfg Processes	2	BIM 109 Biomaterials	4
	for BME			
4	EEC 100	5	EE: BIM 142 Principles &	4
-		-		
	EE: BIM 144 Principles of	4	ENG 190 Professional	3
	Biophotonics		Responsibilities of Engineers	
4/0				
	Winter		Spring	
3	BIM 110B BME Senior	3	BIM 110C BME Senior	3
	Design		Design	
6	EE: BIM 146 Biomedical	4	SE – Imaging Elective**	3
	Image Processing			
4	ENG 105	4	BIM 155 Machine Learning	4
	Thermodynamics		for BME	
i i				
	4 5 2 4 4 2/4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	Winter4MAT 21B Calculus5CHE 2B General Chemistry2BIS 2A Intro to Biology4GE elective4GE elective4MAT 22A or MAT 27A Linear Algebra2/4CHE 8B or CHE 118B Organic Chemistry5PHY 9C Classical Physics4GE elective5PHY 9C Classical Physics4GE elective6EEC 100 Circuits II4EEC 100 Circuits II6EE: BIM 144 Principles of Biophotonics4/0EE: BIM 144 Biomedical Image Processing4EEC 100 Circuits II	Winter4MAT 21B Calculus45CHE 2B General Chemistry52BIS 2A Intro to Biology54GE elective-4GE elective-4MAT 22A or MAT 27A Linear Algebra3/42/4CHE 8B or CHE 118B Organic Chemistry45PHY 9C Classical Physics54GE elective-5PHY 9C Classical Physics54GE elective-6EEC 100 Circuits II56EEC 100 Circuits II57BIM 107 Mfg Processes for BME26EE: BIM 144 Principles of Biophotonics46EE: BIM 146 Biomedical Image Processing44ENG 1054	Winter Spring 4 MAT 21B Calculus 4 MAT 21C Calculus 5 CHE 2B General Chemistry 5 CHE 2C General Chemistry 2 BIS 2A Intro to Biology 5 PHY 9A Classical Physics 4 GE elective GE elective 4 GE elective GE elective 4 MAT 22A or MAT 27A Linear Algebra 3/4 MAT 22B or MAT 27B Differential Equations 2/4 CHE 8B or CHE 118B Organic Chemistry 4 BIM 20 Fundamentals of Bioengineering 5 PHY 9C Classical Physics 5 BIM 20L Graphics Design for BME 4 GE elective ENG 17/17V Circuits I ENG 17/17V Circuits I 4 BIM 106 Biotransport Phenomena 4 BIM 108 Biomedical Signals & Control 5 BIM 107 Mig Processes for BME 2 BIM 109 Biomaterials 4 EEC 100 Circuits I 5 EE: BIM 142 Principles & Practices of Biomedical Imaging 4 EEC 100 Circuits I 5 ENG 190 Professional Responsibilities of Engineers 4/0 Imaging EE: BIM 144 Principles of Biophotonics BIM 110C BME Senior Design 3 BIM 110B BME Senior D

**See advisor for additional Science and Engineering Imaging electives. Only academically strong students may petition to take graduate Imaging courses.

Other courses: EE - BIM Skills Modules - 172 Neuroengineering Lab, 174 Microcontrollers Lab,