BME UNDERGRADUATE CURRICULUM **Imaging**

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**	BIM 089C/20L* CAD for BME	
ENG 6 MATLAB	**4**	GE elective		ENG 17 Circuits I	**4**
JUNIOR					
Fall		**Winter**		**Spring**	
BIM 105 Probability and Stats for BME	**4**	BIM 106 Biotransport	**4**	BIM 108 Biomedical Signals and Control	**4**
BIM 116/NPB 101 Physiology	**5**	ENG 100/EEC 100 (+2 EE) Circuits II	**3**	BIM 109 Biomaterials	**4**
SE: PHY 9D Modern Physics	**4**	EE: BIM 144 Fundamentals of Biophotonics/Bioimaging	**4**	EE: BIM 142 Biomedical Imaging	**4**
GE elective GE elective		Upper Division Composition Course = 4 units, Exam = 0 units	**4/0**	ENG 190 Professional Responsibility Engineers	**3**
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**	ENG 105 Thermodynamics	**4**	SE – Imaging Elective**	
EE: BIM 242 Intro to Biomedical Imaging	**4**	EE: Imaging Elective**	**4**	EE: BIM 287 Molecular Imaging	**4**
EE: Imaging Elective**	**4**	GE elective		GE elective	

BIM 089C/BIM 20L must be taken concurrently with BIM 20

**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 – 174 Microcontrollers, 189C/175 Metalworking, 176 Microfluidics, 189C Neuroengineering, 189C Rapid Prototyping

September 2019