

Biomaterials Track

					Freshman			
							Total credits	
FE 1100	Intro to Engineering	1	CompSci 1500	Intro to Computing		3		
Chem 1100	Lab Safety	1	Math 1215	Calculus II		4		
Chem 1310	General Chem I	4	Chem 1320	Gen Chem II		3		
Chem 1319	General Chem I Lab	1	Phys 1135	Physics I		4		
Math 1214	Calculus I	4	Track Elec	Choice		3		
Hist/PolSci	Choice	3						
Engl 1120	Exposition And Argumentation	3						
					17	17	34	
					Sophomore			
Phys 2135	Physics II	4	Math 3304	Differential Equations		3		
Math 2222	Calculus III	4	Stat 3425	Intro to Biostatistics		3		
Chem 2210	Organic Chemistry I	3	Chem2220	Organic Chemistry II		3		
BioSci 2213/19	Cell Biology/Lab	4	ChemEng 3210	Intro to Biomedical Engineering		3		
Cer Eng 2210	Ceramics in the Modern World	2	Civ Eng 2200	Statics		3		
					17	15	32	
					Junior			
BME 3xxx	Intro to Transport for Biologists	4	Engl 3560	Technical Writing		3		
Cer Eng 3230	Thermodynamics of Materials	3	Track elective	Choice		3		
Cer Eng 3220	Phase Equilibria	3	Sp&MS 1185	Principles of Speech		3		
BioSci 3333/59	Anatomy and Physiology I/Lab	4	Econ 11/1200	Micro or Macro Economics		3		
BME 4xxx	Biomed Polymers & Metals	3	MS&E 5310	Biomaterials I		3		
					17	15	32	
					Senior			
BME 4xxx	BioMed Eng Design I	3	BME 4xxx	BioMed Eng Design II		3		
MS&E 5210	Tissue Engineering	3	BioSci 3783	Biological Design & Innovation		3		
Phil 3223	Bioethics	3	BME 5xxx	Hard Tissue Med Devices		3		
Track elective	Choice	3	BME 5xxx	Drug and Gene Delivery		3		
UL H/SS	Upper-level elective	3						
					15	12	27	
							125	

Track Engineering Electives: At least one engineering course needed

ChemEng 5250	Bioseparations	3
MS&E 4810	Chemistry & Inherent Properties of Polymers	3
MS&E 5810	Introduction to Polymeric Materials	3
MS&E 5460	Molecular Engineering of Materials	3
ElecEng 2100/01	Circuits/Lab	4
ElecEng 2200/01	Electronic Devices/Lab	4

Track Non-Engineering Electives

Chem 2219	Organic Chemistry I Lab	1
Chem 2229	Organic Chemistry II Lab	1
BioSci 1113/1219	General Biology/Lab	4
BioSci 4666	Nanobiotechnology	3
BioSci 4383	Toxicology	3
BioSci 5533	Pharmacology	3