

Biomufacturing Track

					Total credits
Freshman					
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	General 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					34
Sophomore					
Econ 11/1200	Micro or Macro Economics	3	Math 3304	Differential Equations	3
Math 2222	Calculus III	4	Phys 2135	Physics II	4
BioSci 2213/19	Cell Biology/Lab	4	ChemEng 2110	Thermodynamics I	3
ChemEng 2100	Mass & Energy Balances	4	ChemEng 3210	Intro to Biomedical Engineering	3
			Chem 2210/19	Organic Chemistry I/Lab	4
15					32
Junior					
BME 3xxx	Intro to Transport for Biologicals	4	Engl 3560	Technical Writing	3
ChemEng 3120	Thermodynamics II	3	SP&MS 1185	Principles of Speech	3
Stat 3425	Intro to Biostatistics	3	H/SS elect	Elective	3
BioSci 3333/59	Anatomy and Physiology I/Lab	4	ChemEng 5250	Bioseparations	3
Phil 3223	Bioethics	3	ChemEng 3150	Reactor Design	3
17					32
Senior					
BME 4xxx	BioMed Eng Design I	3	BME 4xxx	BioMed Eng Design II	3
ChemEng 4201	Bioseparations Lab	3	ChemEng 4220	Bioreactor Lab	3
ChemEng 4241	Safety	3	UL H/SS	Upper-level elective	3
MS&E 5210	Tissue Engineering	3	ChemEng 5xxx	Vaccine Manufacturing	3
ChemEng 4210	Bioreactors	3	Track Elect	Choice	3
15					30
					128

Track Electives

BioSci 1113/1219	General Biology/Lab	4
Chem 2220/2229	Organic Chemistry II/Lab	4
ChemEng3131	Separations	3
ChemEng 3141	Process Operations	3
ChemEng 4110	Process Control	3
BME 5xxx	Drug and Gene Delivery	3
BME 5xxx	Hard Tissue Med Devices	3
BioSci 2223	General Genetics	3
BioSci 4353	Cancer Cell Biology	3
BioSci 4373	Stem Cell Biology	3