Biological Materials and Molecular Engineering Supplement to the BME Degree Worksheet

for Students Following Catalog Year 2009-2010

Eng credit	√	Course	Course Name	Prerequisites	Add'l Info
Take both of the following courses					
1		BME 314	Models in Biochemistry and Molecular Biology		
1		BME 317	Biomechanical Sensors	Chemistry through 210-2; physics through 135-3	
Take one of the following courses					
1		MAT SCI 370	Biomaterials		
1		BME 343	Biomaterials and Medical Devices	Mat Sci 201 or 301; senior standing	
Take one of the following courses					
1		BME 344	Biological Performance of Materials	Mat Sci 201	
1		MAT SCI 331	Physical Properties of Polymers	Mat Sci 201 or equivalent; Mat Sci 314 or Chem 342-1	
Take one of the following courses					
1		BME 310	Molecular and Cellular Aspects of Bioengineering	Biol Sci 210-2, Gen Eng 205-3	
1		BME 315	Application of Genetic Eng. to Immunochemistry		
1		BME 333	Modern Optical Microscopy and Imaging		
1		BME 346	Tissue Engineering	Biol Sci 210-2 or Chem Eng 375; Gen Eng 205-3	
1		BME 349	Bioregenerative Engineering	Biol Sci 210-2	
1		BME 350	Transport Fundamentals	BME 270; Math 230, BME 377 recommended	
1		BME 377	Intermediate Fluid Mechanics in Engineering and Biology	BME 270 or consent of instructor	
		MECH ENG 385	Nanotechnology		
		CHEM ENG 379	Computational Biology – not offered in 09-10		
		CHEM ENG 372	Interfacial Phenomena and Bionanotechnology – not offered in 09-10		
0		BIOL SCI 301	Biochemistry	Biol Sci 110-1,2,3 or Biol Sci 210-1,2,3; Chem 210-2	
0		BIOL SCI 315	Cell Biology	Biol Sci 110-1,2,3 or Biol Sci 210-1,2,3	
0		BIOL SCI 390	Molecular Biology	Biol Sci 210-1,2,3	