

Curriculum Guideline for Biomedical Engineering BS Degree (not pre-med)  
 For students following catalog year 2007 or 2008  
 last update: May 6, 2008

Please keep in mind that the guidelines below are just guidelines; they don't need to be followed exactly. You may be exempted from taking one or more of the scheduled courses due to previous credits. In such cases you will certainly be modifying the schedule below. Note also that the "track" courses you want to take may not be offered in the quarters designated below. It is up to you to determine what track courses you want to take, to find out what quarter they are offered, and to plan them into your schedule. Make sure to pay attention to prerequisite courses when modifying the schedule.

1. Biomechanics and Rehabilitation

	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
Freshmen	GEN ENG 205-1 Math 220 Chem 101 H&SS	GEN ENG 205-2 Math 224 Chem 102 IDEA 106-1 BME 101	GEN ENG 205-3 Math 230 Chem 103 IDEA 106-2
Sophomore	GEN ENG 205-4 Chem 210-1 BME 271 H&SS	Math 234 Thermo Phys 135-2 H&SS	Mat Sci Fluid Mech Phys 135-3 H&SS
Junior	Stats BME 305 BME 301 H&SS	Bio 210-2 BME 306 BME 302 Unrestricted Elect.	BME 366* BME 307 BME 303 H&SS
Senior	BME 390-1 H&SS Technical Elective Unrestricted Elect.	Capstone Design Track BME 371 Unrestricted Elect.	Unrestricted Elect. Track BME 346 or 349 Unrestricted Elect.

\*Can easily take the following year

## 2. Transport and Tissue Engineering

	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
Freshmen	GEN ENG 205-1 Math 220 Chem 101 H&SS	GEN ENG 205-2 Math 224 Chem 102 IDEA 106-1 BME 101	GEN ENG 205-3 Math 230 Chem 103 IDEA 106-2
Sophomore	GEN ENG 205-4 Chem 210-1 BME 271 H&SS	Math 234 Thermo Phys 135-2 H&SS	Mat Sci Fluid Mech Phys 135-3 H&SS
Junior	Stats BME 305 BME 301 BME 377	Bio 210-2 BME 306 BME 302 BME 350*	H&SS BME 307 BME 303 H&SS
Senior	BME 390-1 H&SS Technical Elective Unrestricted Elect.	Capstone Design Track Unrestricted Elect. Unrestricted Elect.	Unrestricted Elect. Track BME 346 or 349 Unrestricted Elect.

\*Can easily take the following year

### 3. Biological Materials and Molecular Engineering

	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
Freshmen	GEN ENG 205-1 Math 220 Chem 101 H&SS	GEN ENG 205-2 Math 224 Chem 102 IDEA 106-1 BME 101	GEN ENG 205-3 Math 230 Chem 103 IDEA 106-2
Sophomore	GEN ENG 205-4 Chem 210-1 BME 271 H&SS	Math 234 Thermo Phys 135-2 H&SS	Mat Sci Fluid Mech Phys 135-3 H&SS
Junior	Stats BME 305 BME 301 BME 343 or MAT SCI 370	Bio 210-2 BME 306 BME 302 BME 344 or MAT SCI 331	BME 317* BME 307 BME 303 H&SS
Senior	BME 390-1 BME 314 Technical Elective H&SS	Capstone Design Track H&SS Unrestricted Elect.	Unrestricted Elect. Unrestricted Elect. Unrestricted Elect. Unrestricted Elect.

\*Can easily take the following year

#### 4. Signals and Images

	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
Freshmen	GEN ENG 205-1 Math 220 Chem 101 H&SS	GEN ENG 205-2 Math 224 Chem 102 IDEA 106-1 BME 101	GEN ENG 205-3 Math 230 Chem 103 IDEA 106-2
Sophomore	GEN ENG 205-4 Chem 210-1 BME 271 H&SS	Math 234 Thermo Phys 135-2 H&SS	Mat Sci Fluid Mech Phys 135-3 H&SS
Junior	Stats BME 305 BME 301 BME 325*	Bio 210-2 BME 306 BME 302 H&SS	H&SS BME 307 BME 303 EECS 302*
Senior	BME 390-1 BME 333 Technical Elective H&SS	Capstone Design Track Unrestricted Elect. Unrestricted Elect.	Unrestricted Elect. Track Unrestricted Elect. Unrestricted Elect.

\*Can easily take the following year

## 5. Computer Engineering

	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
Freshmen	GEN ENG 205-1 Math 220 Chem 101 H&SS	GEN ENG 205-2 Math 224 Chem 102 IDEA 106-1 BME 101	GEN ENG 205-3 Math 230 Chem 103 IDEA 106-2
Sophomore	GEN ENG 205-4 Chem 210-1 H&SS EECS 202	Math 234 BME Basic Eng Phys 135-2 EECS 203	Stats H&SS Phys 135-3 EECS 205
Junior	EECS 211 BME 305 BME 301 H&SS	Bio 210-2 BME 306 BME 302 BME 383*	EECS 303 BME 307 BME 303 H&SS
Senior	BME 390-1 Track Technical Elective H&SS	Capstone Design Unrestricted Elect. H&SS Unrestricted Elect.	Unrestricted Elect Track Unrestricted Elect Unrestricted Elect.

\*Can easily take the following year

## 6. Electrical Engineering

	<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
Freshmen	GEN ENG 205-1 Math 220 Chem 101 H&SS	GEN ENG 205-2 Math 224 Chem 102 IDEA 106-1 BME 101	GEN ENG 205-3 Math 230 Chem 103 IDEA 106-2
Sophomore	GEN ENG 205-4 Chem 210-1 Basic Eng EECS 202	Math 234 H&SS Phys 135-2 EECS 203	Basic Eng Basic Eng Phys 135-3 H&SS
Junior	H&SS BME 305 BME 301 EECS 223*	Bio 210-2 BME 306 BME 302 EECS 225*	H&SS BME 307 BME 303 EECS 230*
Senior	BME 390-1 EECS 303 Technical Elective H&SS	Capstone Design BME 383 H&SS Unrestricted Elect.	Unrestricted Elect. Unrestricted Elect. Unrestricted Elect. Unrestricted Elect.

\*Can easily take the following year