

# BIOLOGICAL ENGINEERING

**Sample Program** for Biological Engineering which meets requirements for the **Biomedical Eng Minor** and **pre-med study**  
**(Applies to students matriculating in the Fall Semester of 2015 or later;**  
**for rules see the notes section on respective pages.)**

**Name:** \_\_\_\_\_ **Empl ID:** \_\_\_\_\_ **Last Revised:** 8/18/2017  
**E-mail:** \_\_\_\_\_ **Advisor:** \_\_\_\_\_ **Double Major:** \_\_\_\_\_  
**Minor:** \_\_\_\_\_ **Antic. Grad Date:** \_\_\_\_\_

Course Title and Required Credits	Course	Grade	Credit Hours	Total Credits
1. <b>Mathematics:</b> 16 credits				
Calculus for Engineers*	MATH 1910 <sup>a</sup>	_____	4	16
Calculus for Engineers*	MATH 1920 <sup>a</sup>	_____	4	
Engineering Math* (Diff. Equations)	MATH 2930	_____	4	
Engineering Math* (Linear Algebra)	MATH 2940	_____	4	
2. <b>Physics:</b> 8 credits				
Mechanics	PHYS 1112	_____	4	8
Heat/Electromagnetism	PHYS 2213	_____	4	
Pre-medical students may petition the College of Engineering to substitute PHYS 2208				
3. <b>Chemistry:</b> 7 credits				
General Chemistry	CHEM 2070 or 2090 <sup>a</sup>	_____	4	7
Organic Chemistry	CHEM 3570 <sup>a</sup>	_____	3	
Chem II and O-Chem II are counted in number 9				
4. <b>Biological Sciences:</b> 15 credits				
Introductory Biological Science <sup>a,d</sup>	BIOG 1440 <sup>b</sup>	_____	3	15-18
Introductory Biological Science <sup>a,d</sup>	BIOEE/BIOSM 1610 or BIOMG 1350	_____	3	
Introductory Bio Lab <sup>d</sup>	BIOG 1500	_____	2	
Biochemistry (BIOBM 3300 <sup>b</sup> or 3310-3320 recommended)		_____	4-5	
BIOMG 3300 (4) or 3330 (4) or 3310+3320 (5)				
Advanced Biol. Sci. Elective (to complete 15 cr)		_____	3-5	
Microbiology/Micro Lab (both recommended) or	BIOMI 2900/2910 <sup>a,b</sup>			
Behavior/Neurobiology or	BIONB 2210 <sup>a</sup> /2220 <sup>a,b</sup>			
Physiology/Histology	BIOAP 3110 <sup>a,b</sup> /4130 <sup>a</sup>			
5. <b>Written Expression</b> (First Year Writing Seminars): 6 credits				
		_____	3	6
		_____	3	
6. <b>Liberal Studies:</b> 18 credits (Minimum of six courses in at least three of the seven groups; at least two of the six courses at or above 2000 level.)				
(1) Cultural Analysis (CA)				
(2) Historical Analysis (HA)				
(3) Literature and the Arts (LA)				
(4) Knowledge, Cognition and Moral Reasoning (KCM)				
(5) Social & Behavior and Analysis (SBA)				
(6) Foreign Languages (not literature) (FL)				
(7) Communications in Engineering (CE)				
Course Title	Course #	Category	Grade	Credits
				3
				3
				3
				3
				3
				3

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