

**College of Engineering and Computer Science**

Bioengineering  
Effective Fall 2017

Name \_\_\_\_\_  
SUID \_\_\_\_\_

CREDIT GRADE	FIRST-YEAR		SOPHOMORE		JUNIOR		SENIOR		VAR
	F	S	F	S	F	S	F	S	
<b>MATHEMATICS (15)</b>									
MAT295 Calculus 1 (4)____	4								
MAT296 Calculus 2 (4)____		4							
MAT397 Calculus 3 (4)____			4						
MAT485 Diff. Equations & Matrix Algebra (3)____				3					
<b>SCIENCES (24)</b>									
CHE106 General Chemistry 1 (3)____	3								
CHE107 General Chemistry Lab 1 (1)____	1								
CHE116 General Chemistry 2 (3)____		3							
CHE117 General Chemistry Lab 2 (1)____		1							
CHE275 Organic Chemistry 1 (3)____			3						
CHE276 Organic Chemistry Lab 1 (2)____			2						
PHY211 General Physics 1 (3)____		3							
PHY221 General Physics Lab 1 (1)____		1							
PHY212 General Physics 2 (3)____			3						
PHY222 General Physics Lab 2 (1)____			1						
BIO 327 Cell Biology (3)____							3		
<b>ENGLISH/SOCIAL SCIENCE/HUMANITIES (24)</b>									
WRT105 Studio 1: Practices of Academic Writing (3)____	3								
WRT205 Studio 2: Critical Research and Writing (3)____				3					
SSH Elective _____ (3)____	3								
SSH Elective _____ (3)____				3					
SSH Elective _____ (3)____					3				
SSH Elective _____ (3)____						3			
SSH Elective _____ (3)____								3	
SSH Elective _____ (3)____								3	
<b>ENGINEERING (18)</b>									
ECS101 Intro. to Engr. & Comp. Sci (3)____	3								
ECS104 Engr. Comput. Tools (3)____		3							
ECS221 Statics (3)____				3					
ECS326 Engr. Materials, Prop. & Proc. (3)____					3				
ELE231 Elec. Engr. Fundamentals 1 (3)____				3					
ELE232 Elec. Engr. Fundamentals 2 (3)____					3				
<b>BIOENGINEERING (40)</b>									
BEN212 Exp. Methods in Chem Eng & Bioengineering (3)____				3					
BEN231 Mass and Energy Balances (3)____			3						
BEN301 Biological Prin. for Engineers (4)____					4				
BEN333 Fluid Transport (3)____					3				
BEN341 Fund. of Heat & Mass Transfer (4)____						4			
BEN364 Quantitative Physiology (4)____						4			
BEN465 Biomechanics (3)____							3		
BEN468 Biomaterials (3)____								3	
BEN481 Bioinstrumentation (3)____							3		
BEN485 Bioengineering Laboratory (4)____							4		
BEN487 Bioengineering Capstone Design (3)____								3	
BEN575 Process Control (3)____						3			
<b>ELECTIVES (9)</b>									
Tech Elec _____ (3)____						3			
Tech Elec _____ (3)____							3		
Tech Elec _____ (3)____								3	
<b>TOTAL CREDITS</b>	<b>130</b>	<b>17</b>	<b>15</b>	<b>16</b>	<b>18</b>	<b>16</b>	<b>17</b>	<b>16</b>	<b>15</b>