College of Engineering and Computer Science

Bioengineering — Name _____

Fall 2014 — SUID _____

pr= prerequisite, co=corequisite

Minor/Second Major (if any): _____

		CREDIT	FIRST-YEAR		SOPHOMORE		JUNIOR		SENIOR		VAR
		GRADE	F	S	F	S	F	S	F	S	+/-
MATHEMATICS (15)											
MAT295	Calculus 1	(4)____	4								
MAT296	Calculus 2 (p: MAT 295 min C-)	(4)____		4							
MAT397	Calculus 3 (p: MAT 296 min C-)	(4)____			4						
MAT485	Diff. Eq. & Matrix Algebra (p: MAT 397)	(3)____				3					
SCIENCES (24)											
CHE106	General Chemistry 1	(3)____	3								
CHE107	General Chemistry Lab 1 (c: CHE 106)	(1)____	1								
CHE116	General Chemistry 2 (p: CHE106)	(3)____		3							
CHE117	General Chemistry Lab 2 (p: CHE 107, c: 116)	(1)____		1							
CHE275	Organic Chemistry 1 (p: CHE 116)	(3)____			3						
CHE276	Organic Chemistry Lab 1 (p: CHE 117, c: 275)	(2)____			2						
PHY211	General Physics 1 (c: PHY 221, MAT 295)	(3)____		3							
PHY221	General Physics Lab 1 (c: PHY 211)	(1)____		1							
PHY212	General Physics 2 (p: PHY 211,221 , c: PHY 222, MAT 296)	(3)____			3						
PHY222	General Physics Lab 2 (c: PHY 212)	(1)____			1						
BIO 327	Cell Biology (p: BIO 121 or BEN 301, CHE 106)	(3)____						3			
ENGLISH/SOCIAL SCIENCE/HUMANITIES (24)											
WRT105	Studio 1: Practices of Academic Writing	(3)____	3								
WRT205	Studio 2: Critical Research and Writing (p: WRT 105)	(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	
ENGINEERING (18)											
ECS101	Intro. to Engr. & Comp. Sci	(3)____	3								
ECS104	Engr. Comput. Tools (c: MAT 295)	(3)____		3							
ECS221	Statics (p: PHY 211, c: MAT 296)	(3)____				3					
ECS326	Engr. Materials,Prop. & Proc.	(3)____					3				
ELE231	Elec. Engr. Fundamentals 1 (p: MAT 295, PHY 211)	(3)____				3					
ELE232	Elec. Engr. Fundamentals 2 (p: ELE 231)	(3)____					3				
BIOENGINEERING (40)											
BEN212	Exp. Methods in BMCE (p: MAT 296, ECS 104)	(3)____				3					
BEN231	Mass and Energy Balances	(3)____			3						
BEN301	Biol. Prin. for Engineers (p: CHE 275, MAT 397, ECS 104)	(4)____					4				
BEN333	Fluid Transport (p: MAT 397, PHY 212)	(3)____					3				
BEN341	Heat & Mass Transfer (p: BEN 333, MAE 341, or CIE 327)	(4)____						4			
BEN364	Quantitative Physiology (p: BEN 301)	(4)____						4			
BEN465	Biomechanics (p: ECS 221, MAT 485, BEN 364)	(3)____							3		
BEN468	Biomaterials	(3)____								3	
BEN481	Bioinstrumentation (p: ELE 231, 232)	(3)____							3		
BEN485	Bioengineering Laboratory (c: BEN 465, BEN 481)	(4)____							4		
BEN487	Bioengineering Capstone Design	(3)____								3	
BEN575	Process Control (p: MAT 485)	(3)____						3			
ELECTIVES (9)											
Tech Elec	_____	(3)____							3		
Tech Elec	_____	(3)____								3	
Tech Elec	_____	(3)____								3	
TOTAL CREDITS		**130**	**17**	**15**	**16**	**18**	**16**	**17**	**16**	**15**	

*See reverse side for all notes

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