

NAME

**BIOMEDICAL ENGINEERING 133 credits**

FRESHMAN YEAR				SECOND SEMESTER			
Course	Cr.	Registered	Grade	Course	Cr.	Registered	Grade
MATH 121 Calculus I	4			MATH 122 Calculus II	4		
ENGR 102 Intro Engr. Design & Prof.	3			PHYS 215 University Physics I	4		
CSC 113 Computer Programming	3			ENGR 106 Computer Aided Engineer Tools	3		
PHIL 201 Classical Mind	3			PHIL 202 Modern Mind	3		
ENG 101 Rhetoric & Composition	3			TRS 201 Faith Seeking Understanding	3		
BE 101 Intro to Biomedical Engineering	0			BE 491 Seminar Biomedical Engineering	0		
Total Credits 16				Total Credits 17			
SOPHOMORE YEAR				SECOND SEMESTER			
MATH 221 Calculus III	4			BE 202 Biomechanics	3		
PHYS 216 University Physics II	4			ENGR 212 Electrical Networks	3		
ENGR 201 Engineering Mechanics I	3			ENGR 222 Engineering Math I	4		
CHEM 103 General Chemistry I	3			ENGR 211 Thermodynamics	3		
CHEM 113 General Chemistry Lab	2			CHEM 108 General Chemistry II	3		
				BE 491 Seminar Biomedical Engineering	0		
Total Credits 16				Total Credits 16			
JUNIOR YEAR				SECOND SEMESTER			
BIOL 105 Mechanisms of Life I	3			BE 315 Intro Biomedical Systems Analysis	3		
BIOL 115 Mechanisms of Life I -Lab	2			BIOL 418 Physiology	4		
ENGR 321 Electronic Circuits I	3			BE 413/513 Bioinstrumentation	3		
ENGR 355 Electronics Lab	1			PHIL 362 Professional Ethics in Engineering	3		
ENGR 331 Fluid Mechanics	3			Liberal Studies	3		
BE 398 Biomechanical Design	3			BE 491 Seminar Biomedical Engineering	0		
Math 309 Probability & Statistics for Engr	3						
Total Credits 18				Total Credits 16			
SENIOR YEAR				SECOND SEMESTER			
ENGR 441 Senior Design	3			ENGR 442 Senior Project Lab	3		
BE 401 Biomaterials	3			BE Program Elective	3		
ENGR 403 Control Systems	3			BE Program Elective	3		
BE Program Elective	3			BE Program Elective	3		
Liberal Studies	3			Liberal Studies *	3		
ENGR 401 Senior Seminar	1			Liberal Studies *	3		
Total Credits 16				Total Credits 18			

**Liberal studies requirement**

1) students entering Fall 2018 or later: \* Two *Liberal Studies* must be TRS 202A or B, and one class from the approved list of Fine Arts or Literature subject areas. 2) students entering prior to Fall 2018: 3 TRS courses  
 Speak to your adviser for a listing of these courses, or look at the General Education Curriculum website