

**Biological Engineering Curriculum**  
2017-2018

Mathematics & Statistics (19 cr)		
Math 1500	Calculus I	(5)
Math 1700	Calculus II	(5)
Math 2300	Calculus III	(3)
Math 4100	Differential Equations	(3)
Statistics	(from approved list)	(3)
Basic Science (28 cr)		
Phys 2750	University Physics I	(5)
Phys 2760	University Physics II	(5)
Chem 1320	General Chemistry I	(4)
Chem 2100	Organic Chemistry	(3)
Biol 1500	Intro to Biological Systems	(5)
Bio & Related Science	(from approved list)	(6)
General Education (21 cr)		
Behavioral and Social Science		(9)
Includes - Economics and American History or Government		
English 1000	Exposition and Argumentation	(3)
Humanities and Fine Arts		(9)
Basic Engineering (14 cr)		
Engr 1100	Engineering Design Graphics	(2)
Engr 1200	Statics	(3)
Engr 2200	Strength of Materials	(3)
Fluid Mechanics	(from approved list)	(3)
Thermodynamics	(from approved list)	(3)
Biological Engineering (18 cr)		
BioEn 2000	Professional Development in Engineering	(2)
BioEn 2080	Programming for Engineers	(3)
BioEn 2180	Engineering Analysis of Bioprocesses	(3)
BioEn 3180	Heat & Mass Transfer in Bio Systems	(3)
BioEn 4380	Applied Electronic Instrumentation	(4)
BioEn 4980	Biological Engineering Design	(3)
Technical Elective Courses (24 cr) – to develop a technical emphasis		
All must be upper-level engineering courses		
Additional credit to make 126 credit hours		(2)