

**Biological Engineering Curriculum**  
2008-2009

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 (29 cr)

Phys 2750	University Physics I	(5)
Phys 2760	University Physics II	(5)
Chem 1320	General Chemistry II	(3)
Chem 2050/2100	Organic Chemistry	(5-3)
Biol 1500	Intro to Bio Systems	(5)
Bio Science	(from approved list)	(6-8)

General Education (21 cr)

Social and Behavioral Sciences	(9)
Includes - Economics and Am History or Government	
English 1000 Exposition and Argumentation	(3)
Humanistic Studies and Fine Arts	(9)

Basic Engineering (17 cr)

Engr 1100	Engineering Design Graphics	(2)
Engr 1200	Statics	(3)
Engr 2200	Strength of Materials	(3)
BioEn 2080	Programming for Engineers	(3)
Fluid Mechanics	(from approved list)	(3)
Thermodynamics	(from approved list)	(3)

Biological Engineering (19 cr)

BE 1000	Intro to Biological Engineering	(1)
BE 2000	Professional Development	(2)
BE 2180	Engineering Analysis of Bioprocesses	(3)
BE 3180	Heat & Mass Transfer in Bio Systems	(3)
BE 4280	Survey of BioEngineering Techniques	(3)
BE 4380	Applied Electronic Instrumentation	(4)
BE 4980	Biological Engineering Design	(3)

Technical Elective Courses (18 cr) – to develop a technical emphasis

All must be upper-level engineering courses

Math, statistics, science, or engineering courses to make up 126 credit hours

June 3, 2008