

SEMESTER 1	CH 1213 Chemistry I	CH 1211 Invst in Chem I	BIO 1134 ^L Biology I	MA 1713 Calculus I	**Soc / Beh Sci Elective (3h)	EN 1103 English Comp I	^F ABE 1911 Engr in Life Sci	18
	^F							
SEMESTER 2	CH 1223 Chemistry II	CH 1221 Invst in Chem II	**Humanities Elective (3h)	MA 1723 Calculus II	PH 2213 Physics I	EN 1113 English Comp II	^S ABE 1921 Intro to Engr Des	17
	^S							
SEMESTER 3		*Biological Sci Elective (3h)	EM 2413 Engr Mech I	MA 2733 Calculus III	PH 2223 ^L Physics II	CSE 1233 Comp Prog- C		15
	^F							
SEMESTER 4	CH 2503 Elem Organic	CH 2501 Elem Organic Lab	EM 2433 Engr Mech II	MA 2743 Calculus IV	*Engineering Elective (3h)	^S ABE 4803 Biosy Simulation		16
	^S							
SEMESTER 5	BCH 4013 Princ Biochem	**Soc / Beh Sci Elective (3h)	EM 3213 Mech of Materials	MA 3253 Diff Equations	^F ABE 3413 ^L Bio Instrum I			15
	^F							
SEMESTER 6	BIO 3304 ^L Gen Microbio			^S ABE 3303 Trans in Biol Env	^S ABE 4423 ^L Bio Instrum II	^S ABE 3813 ^L Biophy Prop of Mat	GE 3513 Tech Writing	16
	^S							
SEMESTER 7		^F ABE 4911 Engr Seminar	ABE Engineering Elective	*Engineering Elective (3h)	*Biological Sci or Engr Elective (3h)	^F ABE 4313 or ABE 4323	^F ABE 4813 Princ Engr Design	16
	^F							
SEMESTER 8		*Engineering Elective (3h)	EM 3313 Fluid Mechanics	**Fine Arts Elective (3h)	**Humanities Elective (3h)		^S ABE 4833 Pract Engr Design	15
	^S							

L - Lab Included
 F - Fall
 S - Spring

* Restricted elective course options are listed on the back
 ** University core curriculum elective options are listed on a separate page

TOTAL **128**

Biological Science Electives:

BIO 2103 - Cell Biology
BIO 3103 - Genetics (with Lab)
BIO 3504 - Comparative Anatomy (with Lab)
BIO 4114 - Cellular Physiology (with Lab)
BIO 4413 - Immunology
BIO 4503 - Vertebrate Histology (with Lab)
BIO 4504 - Comp Vertebrate Embryology (with Lab)
BIO 4514 - Animal Physiology (with Lab)
BIO 3104 - Ecology (with Lab)
BIO 4204 - Plant Anatomy (with Lab)
BIO 4213 - Plant Ecology (with Lab)
BIO 4324 - Soil Microbiology (with Lab)
BIO 4404 - Environmental Microbiology (with Lab)
BIO 4502 - Toxicology
WF 3133 - Applied Aquatic Ecology (with Lab)
WF 4372 - Water Quality Management
ADS 3213 - Performance Analysis of Meat Animals (with Lab)
ADS 4213 - Livestock Nutrient Analysis
PSS 4103 - Forage and Pasture Crops (with Lab)
FO 4452 - Remote Sensing Applications (with Lab - FO 4451)

Engineering Electives:

CE 3803 - Environ/Water Resources Engineering I (with Lab CE 3801)
CE 3813 - Environ/Water Resources Engineering II (with Lab CE 3811)
CE 4843 - Advanced Sanitary Analysis
CE 4893 - Hazardous Waste Management
CHE 4613 - Air Pollution Control Design
CHE 4623 - Hazardous Waste Incineration
CHE 4990 - Pollution Abatement and Control
ECE 3714 - Digital Devices and Logic Design (with Lab)
EM 4123 - An Intro to Finite Element Method
EM 4133 - Mechanics of Composite Materials
EM 4213 - Advanced Mechanics of Materials
IE 3913 - Engineering Economy I
IE 4173 - Occupational Safety Engineering
MA 3113 - Intro to Linear Algebra
MA 4373 - Intro to Partial Differential Equations
MA 4543 - Intro to Mathematical Statistics I
ME 4403 - Machine Design
ME 4833 - Intermediate Fluid Mechanics
ME 4483 - Computer-Aided Design
ME 4653 - Fluid Power Control

ABE Engineering Electives:

ABE 2873 - Land Surveying (with Lab)
ABE 3513 - GPS/GIS for Engr & Ag (with Lab)
ABE 4483 - Introduction to Remote Sensing Technologies
ABE 4513 - Dynamics of Aging
ABE 4523 - Biomedical Materials
ABE 4533 - Rehabilitation Engineering
ABE 4613 - Biomechanics
ABE 4723 - Tissue Engineering and Regeneration