

Flowchart

Name: _____
 Student ID #: _____
 Net ID: _____
 Advisor: _____

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	*Engr / Math 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	^F ABE 4613 Biomechanics	^F ABE 4723 Tissue Engineering	^F ABE 4523 Biomed Materials	^F ABE 4323 Phys Systems in Biomed Engr	^F ABE 4813 Princ Engr Design	16
		^F							
SEMESTER	8		*Engr / Math 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 3504 - Comparative Anatomy (with Lab)
BIO 4114 - Cell Physiology
BIO 4405 - Pathogenic Microbiology
BIO 4413 - Immunology
BIO 4433 - Principles of Virology
BIO 4503 - Vertebrate Histology (with Lab)
BIO 4514 - Animal Physiology (with Lab)
BIO 4504 - Comparative Vertebrate Anatomy
ADS 4613 - Physiology of Reproduction
BCH 4113 - Essentials of Molecular Genetics
CVM 2443 - Essentials of Biotechnology

Engineering Electives:

EM 4123 - An Intro to Finite Element Method
EM 4133 - Mechanics of Composite Materials
EM 4213 - Advanced Mechanics of Materials
ME 3133 - Modeling and Manufacturing
ME 3533 - Thermodynamics
ME 4123 - Failure of Engineering Materials
ME 4743 - Labview
ME 4833 - Intermediate Fluid Mechanics
EG 1143 - Graphic Communication
CSE 4613 - Bio-Computing
CSE 4623 - Computational Biology
IE 4113 - Human Factors Engineering
IE 4173 - Occupational Safety Engineering
IE 4533 - Project Management

Engineering / Math Electives:

ABE 4513 - Dynamics of Aging
ABE 4533 - Rehabilitation Engineering
ABE 4624 - Exp Methods Materials Research
MA 3113 - Intro to Linear Algebra
MA 3353 - Differential Equations II
MA 4373 - Intro to Partial Differential Equations
MA 4543 - Intro to Mathematical Statistics I
ECE 3714 - Digital Devices and Logic Design (with Lab)
ECE 3443 - Signals and Systems
IE 4733 - Linear Programming
IE 4743 - Engineering Design Optimization
PH 2233 - Physics III