

SEMESTER	SEMESTER	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE			
1		CH 1213 Chemistry I	CH 1211 Invst in Chem I	*Soc / Beh Sci Elective (3h)	BIO 1134 ^L Biology I	MA 1713 Calculus I	EN 1103 English Comp I	F ABE 1911 Engr in Life Sci	18	
	F									
2		CH 1223 Chemistry II	CH 1221 Invst in Chem II	PH 2213 Physics I	†Biological Sci Elective (3h)	MA 1723 Calculus II	EN 1113 English Comp II	S ABE 1921 Intro to Engr Design	17	
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3		CH 4513 Organic Chem I	CH 4511 Org Chem Lab I	PH 2223 Physics II	EM 2413 Engr Mech I	MA 2733 Calculus III	MA 3123 Introduction to Statistical Infer		16	
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4		CH 4523 Organic Chem II	CH 4521 Org Chem Lab II	**PH 2233 Physics III	EM 2433 Engr Mech II	MA 2743 Calculus IV	S ABE 4803 Biosy Simulation	MCAT	16	
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5		BIO 3304 ^L Gen Microbio		EM 3213 Mech of Materials		MA 3253 Diff Equations	*Humanities Elective I (3h)	F ABE 3413 ^L BioInstrum I	MCAT	16
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6		GE 3513 Tech Writing	ABE 3813 ^L Biophy Prop of Mat	S ABE 3303 Trans in Biol Engr	EM 3313 Fluid Mechanics	**Engineering Elective (3h)		S ABE 4423 ^L BioInstrum II	MCAT	18
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7		*Humanities Elective II (3h)	F ABE 4813 Princ Engr Design	F ABE 4323 ^L Phys Systems in Biomedical Engr	F **ABE Elective (3h)	F **ABE Elective (3h)	ABE 4911 Engr Seminar		16	
	F									
8		BCH 4013 Princ Biochem	S ABE 4833 Practices Engr Design	**Engineering OR ‡Math/Physics Elective (3h)	*Soc / Beh Sci Elective (3h)	*Fine Arts Elective (3h)			15	
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Biological Science Electives:

BIO 2103 Cell Biology
BIO 3103 Genetics I
BIO 3504 Comparative Anatomy
BIO 4114 Cellular Physiology
BIO 4405 Pathogenic Microbiology
BIO 4413 Immunology
BIO 4433 Principles of Virology
BIO 4503 Vertebrate Histology
BIO 4504 Comparative Vertebrate Embryology
BIO 4514 Animal Physiology
ADS 4613 Physiology of Reproduction
BCH 4113 Essentials of Molecular Genetics

Engineering Electives:

ABE 4523 Biomedical Materials
ABE 4613 Biomechanics
ABE 4723 Tissue Engineering and Regeneration
ABE 4624 Experimental Methods in Materials Research
EM 4123 An Introduction to the Finite Element Method
EM 4133 Mechanics of Composite Materials
EM 4213 Advanced Mechanics of Materials
ME 3113 Engineering Analysis
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 3913 Engineering Economy I
IE 4113 Human Factors Engineering
IE 4173 Occupational Safety Engineering
IE 4553 Engineering Law and Ethics
IE 4733 Linear Programming
IE 4743 Engineering Design Optimization
ECE 3714 Digital Devices and Logic Design

Math/Physics Electives:

MA 3113 Introduction to Linear Algebra
MA 3353 Differential Equations II
MA 4143 Graph Theory
MA 4373 Introduction to Partial Differential Equations
PH 2233 Physics III