

	SEMESTER	COURSE	COURSE	COURSE	COURSE	COURSE	COURSE			
	<b>1</b>	CH 1213 Chemistry I	CH 1211 Invst in Chem I	*Soc / Beh Sci Elective (3h)	BIO 1134 <sup>L</sup> Biology I	MA 1713 Calculus I	EN 1103 English Comp I	F ABE 1911 Engr in Life Sci	<b>18</b>	
	<b>2</b>	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	<b>17</b>	
	<b>3</b>	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		<b>16</b>	
	<b>4</b>	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	<b>16</b>	
	<b>5</b>	BIO 3304 <sup>L</sup> Gen Microbio		EM 3213 Mech of Materials		MA 3253 Diff Equations	*Humanities Elective I (3h)	F ABE 3413 <sup>L</sup> BioInstrum I	MCAT	<b>16</b>
	<b>6</b>	BCH 4013 Princ Biochem OR BCH 4613 Gen Biochem	S ABE 3813 <sup>L</sup> Biophy Prop of Mat	ABE 3303 Transort in Biol Engr	EM 3313 Fluid Mechanics	*Soc / Beh Sci Elective (3h)		S ABE 4423 <sup>L</sup> BioInstrum II	MCAT	<b>18</b>
	<b>7</b>	*Humanities Elective II (3h)	F ABE 4813 Princ Engr Design	F ABE 4323 <sup>L</sup> Phys Systems in Biomedical Engr	F **ABE Elective (3h)	F **ABE Elective (3h)	ABE 4911 Engr Seminar		<b>16</b>	
	<b>8</b>	GE 3513 Tech Writing	S ABE 4833 Practices Engr Design	**Engineering Elective (3h)	**Engineering Elective (3h)	*Fine Arts Elective (3h)			<b>15</b>	

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### Biological Science Electives:

BIO 2103 Cell Biology  
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 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