

Biomedical Engineering B.S. Degree - Typical Course of Study - SEMESTERS

Year	FIRST YEAR		SECOND YEAR			THIRD YEAR			FOURTH YEAR			FIFTH YEAR	
Term	FALL SEM	SPRING SEM	FALL SEM	SPRING SEM	SUMMER	FALL SEM	SPRING SEM	SUMMER	FALL SEM	SPR SEM	SUMMER	FALL SEM	SPRING SEM
Engineering Topics	<b>BIME-181</b> Intro to BME 1	<b>BIME-182</b> Intro to Program. for BME 2	<b>BIME-200</b> Musculoskeletal Biomechanics 3	<b>BIME-370</b> Biomaterials Science 3			<b>BIME-410</b> Systems Physiology I 3		<b>BIME-411</b> Systems Physiology II 3			<b>BIME-497</b> Multi-Disc Senior Design I 3	<b>BIME-498</b> Multi-Disc Senior Design II 3
			<b>BIME-250</b> Biosystems Process Analysis 3	<b>BIME-320</b> Fluid Mechanics 3			<b>BIME-440</b> Biomed Signals & Analysis 4		<b>BIME-450</b> Analysis of Cmplx Biosys 3			<b>BIME-460</b> Dynamics & Ctrl Biomed Sys 3	<b>Prof Tech Elective</b> 3
			<b>EGEN-099</b> Co-op Prep Sem 0	<b>BIME-391</b> Biomechanics & Biomaterials Lab 2	Co-op	Co-op			<b>BIME-491</b> Systems Phys & Sig Analysis Lab 1	Co-op	Co-op	<b>BIME-492</b> Sys Phys Ctrl & Dynamics Lab 1	
Mathematics/Science Topics	<b>CHMG-141</b> Gen Chem I 3	<b>CHMG-142</b> Gen Chem II 3	<b>BIOG-140</b> Cell & Mol Bio Eng I 3	<b>BIOG-141</b> Cell & Mol Bio Eng II 3			<b>BIOG-142</b> Biocomp and Immune Sys 3						
	<b>CHMG-145</b> Chem. Lab I 1	<b>CHMG-146</b> Chem. Lab II 1	<b>MATH-231</b> Diff Equations 3	<b>MATH-221</b> Multi-Var & Vector Calc 4			<b>MATH-251</b> Prob & Stat I 3						
	<b>MATH-181</b> Project-Based Calculus I 4	<b>MATH-182</b> Project-Based Calculus II 4	<b>PHYS-212</b> Univ Phys II 4										
Gen Ed/Other Topics	<b>Year One</b> 0	<b>Liberal Arts &amp; Sci Perspective #2</b> 3		<b>Liberal Arts &amp; Sci Perspective #3</b> 3			<b>Liberal Arts &amp; Sci Perspective #4</b> 3		<b>Liberal Arts &amp; Sci Immersion #1</b> 3			<b>Liberal Arts &amp; Sci Immersion #2</b> 3	<b>Liberal Arts &amp; Sci GE Elective</b> 3
	<b>Liberal Arts &amp; Sci First Year Writing</b> 3	<b>Wellness Course</b> 0										<b>Free Elective</b> 3	<b>Liberal Arts &amp; Sci Immersion #3</b> 3
	<b>Liberal Arts &amp; Sci Perspective #1</b> 3											<b>Wellness Course</b> 0	<b>Free Elective</b> 3
<b>Credits</b>	15	17	16	18			16		16			16	15

Math/Science: 43 (Min ABET = 32)  
 Engineering Topics: 53 (Min. ABET = 48)  
 Gen Ed: 70 (Min. NYS = 60, not including electives)

4-credit courses: 8 (including Chem + labs as one 4-cr. Course)  
 3-credit course: 32 (not including Chem labs)  
 Guidelines: Max 4-credit courses: 8  
 Min 3-credit courses: 32