

## Biomedical Engineering

	UI Course #	University of Iowa Course Title	SH		ICCC Course #	Iowa Central CC Course Title	SH
<b>Semester 1</b>							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	<b>BOTH</b>	MAT 210	Calculus I	4
					MAT 216	Calculus II	4
	ENGR:1100	Introduction to Engineering Problem Solving	3		No equivalent course offered		
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General Chemistry I	4
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4	<b>ALL</b>	ENG 105	Composition I	3
					ENG 106	Composition II	3
SPC 112					Public Speaking	3	
ENGR:1000	Engr Success for First-Year Students	1*		No equivalent course offered			
	<b>Total</b>		<b>16</b>				
<b>Semester 2</b>							
Spring	MATH:1560	Engineering Math II – Multivariable Calculus	4		MAT 219**	Calculus III	4
	MATH:2550	Engineering Math III – Matrix Algebra	2		No equivalent course offered		
	ENGR:1300	Introduction to Engineering Computing	3	<b>CHOOSE 1</b>	CIS 172	Java	4
					CIS 162	C++	4
	PHYS:1611	Introductory Physics I with Lab	4		PHY 212	Classical Physics I	5
	CHEM:1120	Principles of Chemistry II & Lab	4		CHM 175	General Chemistry II	4
	BME:1010	BME Forum	1*		No equivalent course offered		
	<b>Total</b>		<b>18</b>				
<b>Semester 3</b>							
Fall	MATH:2560	Engineering Math IV – Differential Equations	3		MAT 226	Differential Equations with Laplace	3
	BIOL:1411	Foundations of Biology	4		BIO 112	General Biology I	4
	ENGR:2110	Engineering Fundamentals I – Statics	2		No equivalent course offered		
	ENGR:2120	Engineering Fundamentals II – Electrical Circuits	3		No equivalent course offered		
	ENGR:2130	Engineering Fundamentals III – Thermodynamics	3		No equivalent course offered		
	BME:2010	BME Professional Seminar	1*		No equivalent course offered		
	<b>Total</b>		<b>16</b>				
<b>Semester 4</b>							
Spring	HHP:3500	Human Physiology	3	<b>BOTH</b>	BIO 168	Human Anatomy & Physiology I w/ Lab	4
					BIO 173	Human Anatomy & Physiology II w/ Lab	4
	BME:2500	Bio- Materials & Mechanics / Lab	4		No equivalent course offered		
	BME:2200	Systems, Instrumentation, & Data Acquisition/Lab	4		No equivalent course offered		
	BME:2210	Bioimaging & Bioinformatics/Lab	4		No equivalent course offered		
	BIOS:4120	Intro to Biostatistics (STAT:3510 Biostatistics)	3		No equivalent course offered		
BME:2010	BME Professional Seminar	1*		No equivalent course offered			
	<b>Total</b>		<b>18</b>				

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Semester 5							
Fall	BME:2110	Cell Biology for Engineers / Lab	3		No equivalent course offered		
		Track Requisite #1	3		No equivalent course offered		
	PHYS:1612	Introductory to Physics II with Lab	4		PHY 222	Classical Physics II	5
		GEC Elective #1	3				
		GEC Elective #2	3				
	BME:3010	Leadership and Resourcefulness	1*		No equivalent course offered		
		Total		17			
Semester 6							
Spring		GEC Elective #3	3				
		Track Requisite #2	3		No equivalent course offered		
		Track Elective #1	3				
		Track Elective #2	3				
		GEC Elective #4	3				
	BME:4010	BME Design Seminar	1*		No equivalent course offered		
		Total		18			
Semester 7							
Fall	BME:4910	BME Design I	4		No equivalent course offered		
		Track Elective #3	3				
		Track Elective #4	3				
		Track Requisite #3	3		No equivalent course offered		
		Track Requisite #4	3		No equivalent course offered		
		Total		16			
Semester 8							
Spring	BME:4920	BME Design II	4		No equivalent course offered		
		Track Elective #5	3				
		Track Elective #6	3				
		Track Elective #7	3				
		GEC Elective #5	3				
		Total		16			

2016-2018 Curriculum

updated June 2018

\* 1sh; does not count toward 128 sh total required for graduation

\*\*Students must have completed Calculus I, II, and III to receive credit for Engineering Math II