

Biomedical Engineering

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	UI Course #	University of Iowa Course Title	SH		HCC Course #	Hawkeye CC Course Title	SH
Semester 1							
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	BOTH	MAT 210	Calculus I	4
					MAT 216	Calculus II	4
	ENGR:1100	Introduction to Engineering Problem Solving	3		EGR 410	Principles of Engineering	3
	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	ALL	ENG 105	Composition I	3
					ENG 106	Composition II	3
			SPC 101		Fund. of Oral Communication	3	
	ENGR:1000	Engr Success for First-Year Students	1*	No equivalent course offered			
		Total	16				
Semester 2							
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	No equivalent course offered			
	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			
		Total	18				
Semester 3							
Fall	MATH:2560	Engineering Math IV – Differential Equations	3	No equivalent course offered			
	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			
		Total	16				
Semester 4							
Spring	HHP:3500	Human Physiology	3	BOTH	BIO 168	Human Anatomy & Physiology I	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				
		Total	18				

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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				
		TR#2:Track Requisite #2	3		No equivalent course offered		
		TE#1: Track Elective #1	3				
		TE#2: 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		
		TE#3: Track Elective #3	3				
		TE#4: Track Elective #4	3				
		TR#3: Track Requisite #3	3		No equivalent course offered		
		TR#4: Track Requisite #4	3		No equivalent course offered		
		Total		16			
Semester 8							
Spring	BME:4920	BME Design II	4		No equivalent course offered		
		TE#5: Track Elective #5	3				
		TE#6: Track Elective #6	3				
		TE#7: Track Elective #7	3				
		GEC Elective #5	3				
		Total		16			

2017-18 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