

Biomedical Engineering								
	UI Course #	University of Iowa Course Title	SH		KCC Course #	Kirkwood 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	Engineering Problem Solving I	3		EGR 160	Engineering I	3	
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General Chemistry I	4	
	RHET:1030	Rhetoric (Choose one in each section: Writing Component 1, Writing Component 2, Speech Component)	4		CHOOSE 1	ENG 105	Composition I (Writing Component I)	3
						ENG 106	Composition II (Writing Component II)	3
						ENG 108	Composition II: Tech (Writing Component II)	3
						ENG 120	College Writing (Writing Component II)	5
	CHOOSE 1	SPC 101	Fund. of Oral Comm. (Speech Component)	3				
SPC 112		Public Speaking (Speech Component)	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		MAT 149	Linear Algebra	3	
	ENGR:1300	Engineering Problem Solving II	3		CHOOSE 1	CIS 171	Java	3
						CIS 175	Java II	3
						EGR 167	Engineering II	4
						CSC 142	Computer Science	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				
	Total		18					
Semester 3								
Fall	MATH:2560	Engineering Math IV – Differential Equations	3		MAT 227	Differential Equations with Laplace	4	
	BIOL:1411	Foundations of Biology	4		BIO 112	Biology I	4	
	ENGR:2110	Engineering Fundamentals I – Statics	2		EGR 180	Statics	3	
	ENGR:2120	Engineering Fundamentals II – Electrical Circuits	3		EGR 285	Introduction to Electrical Science	4	
	ENGR:2130	Engineering Fundamentals III – Thermodynamics	3		EGR 290	Thermodynamics	3	
	BME:2010	BME Professional Seminar	1*		No equivalent course offered			
		Total		16				

Semester 4							
Spring	HHP:3500	Human Physiology	3	BOTH	BIO 168 BIO 173	Human Anatomy/Physiology I Human Anatomy/Physiology II	4 4
				OR	BIO 180	Human Physiology	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	19					
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	
		General Education Component #1	3				
		General Education Component #2	3				
	BME:3010	Leadership and Resourcefulness	1*	No equivalent course offered			
		Total	17				
Semester 6							
Spring		General Education Component #3	3				
		Track Requisite #2	3	No equivalent course offered			
		Track Elective #1	3	No equivalent course offered			
		Track Elective #2	3	No equivalent course offered			
		General Education Component #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	No equivalent course offered			
		Track Elective #4	3	No equivalent course offered			
		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	No equivalent course offered			
		Track Elective #6	3	No equivalent course offered			
		Track Elective #7	3	No equivalent course offered			
		General Education Component #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