## University of Iowa - College of Engineering & Des Moines Area Community College



		Biomedica	ıl E	<mark>Inginee</mark>	ering			
	UI Course #	University of Iowa Course Title	SH	Ü	DMACC Course #	DMACC Course Title	SH	
emester 1								
Fall	MATH:1550	Engineering Math I – Single Variable Calculus	4	вотн	MAT 211	Calculus I	5	
				вотн	MAT 217	Calculus II	5	
	ENGR:1100	Introduction to Engineering Problem Solving	3		EGR 166	Engineering Graphics/Conceptual Design	4	
	CHEM:1110	Principles of Chemistry I & Lab	4		CHM 165	General/Inorganic Chemistry I	4	
	RHET:1030	Rhetoric (Writing Component 1, Writing Component 2, and a single Speech Component all required)	4		ENG 105	Composition I	3	
				CHOOSE 1	ENG 106	Composition II	3	
					ENG 108	Composition II: Technical Writing	3	
					SPC 101	Fundamentals of Oral Communication	3	
	ENGR:1000	Engr Success for First-Year Students	1*			No equivalent course offered		
		Total	16			:		
emester 2								
	MATH:1560	Engineering Math II – Multivariable Calculus	4		MAT 219**	Calculus III	4	
	MATH:2550	Engineering Math III – Matrix Algebra	2		MAT 148	Linear Algebra w/ Applications	4	
		Introduction to Engineering Computing	3		CIS 161	C++	3	
				CHOOSE 1	CIS 169	C#	3	
	ENGR:1300				CIS 171	Java	3	
Spring					CIS 125	Intro to Programming Logic	3	
				OR BOTH	EGR 155	Engineering C/C++	2	
	PHYS:1611	Introductory Physics I with Lab	4		PHY 213	Classical Physics I	6	
	CHEM:1120	Principles of Chemistry II & Lab	4		CHM 175	General/Inorganic Chemistry II	4	
	BME:1010	BME Forum	1*		No equivalent course offered			
		Total	18					
emester 3	3							
Fall	MATH:2560	Engineering Math IV – Differential Equations	3		MAT 227	Differential Equations with Laplace	4	
	BIOL:1411	Foundations of Biology	4	вотн	BIO 112	General Biology I	4	
					BIO 113	General Biology II	4	
	ENGR:2110	Engineering Fundamentals I – Statics	2		EGR 180	Statics	3	
	ENGR:2120	Engineering Fundamentals II – Electrical Circuits	3		No equivalent course offered			
	ENGR:2130	Engineering Fundamentals III – Thermodynamics	3		No equivalent cou	No equivalent course offered		
	BME:2010	BME Professional Seminar	1*		No equivalent course offered			
		Total	16					
emester 4	ļ							
Spring	HHP:3500	Human Physiology	3	вотн	BIO 168	Anatomy & Physiology I	4	
			3	ВОТН	BIO 173	Anatomy & Physiology II	4	
				OR	BIO 734	Health Science Physiology	3	
	BME:2200	Systems, Instrumentation, & Data Acquistion/Lab	4		No equivalent course offered			
	BME:2210	Bioimaging & Bioinformatics/Lab	4		No equivalent course offered			
	BME:2500	Bio- Materials & Mechanics / 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					

emester !	5			
	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 223 Classical Physics II 6
Fall		GEC Elective #1	3	
		GEC Elective #2	3	
	BME:3010	Leadership and Resourcefulness	1*	No equivalent course offered
		Total	17	
emester (	5			
		Track Requisite #2	3	No equivalent course offered
		Track Elective #1	3	
		Track Elective #2	3	
		GEC Elective #3	3	
		GEC Elective #4	3	
	BME:4010	BME Design Seminar	1*	No equivalent course offered
		Total	16	
emester 7	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	
emester 8	3			
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	

<sup>\* 1</sup>sh; does not count toward 128 sh total required for graduation

updated May 2018

Note: Two Track Electives must be Engineering courses

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