Biomedical Engineering Curriculum											
Academic Year 2019-2020											
Fall Term						Spring Term					
First Year											
	EGGG	101	Introduction to Engineering (FYE)	2		BMEG	100	Fundamentals in Biomedical Engineering	2		
	BISC	207	Introductory Biology I	4		CHEM	104	General Chemistry (b)	4		
	CHEM	107	General Chemistry for Life Sciences I (a)	4		CISC	106	General Computer Science for Engineers	3		
	MATH	241	Analytic Geometry & Calculus A	4		ENGL	110	Seminar in Composition	3		
			Breadth Requirement Elective 1	3		MATH	242	Analytic Geometry & Calculus B	4		
				17					16		
Second Year											
	BMEG	301	Quantitative Cellular Physiology	3		BMEG	302	Quantitative Systems Physiology	3		
	CHEM	321	Organic Chemistry I	3		BMEG	230	Circuits, Signals & Systems for Biomed. Apps.	3		
	CHEM	325	Organic Chemistry Lab I	1		MATH	305	Applied Math for Biomed, Chem & Biomol Eg	3		
	MATH	243	Analytic Geometry & Calculus C	4		PHYS	208	Fundamentals of Physics II	4		
	PHYS	207	Fundamentals of Physics I	4				Breadth Requirement Elective 2	3		
				15					16		
Third Year											
	BMEG	310	Bioengineering Mechanics I	4		BMEG	311	Bioengineering Mechanics II	3		
	BMEG	330	Biomedical Instrumentation	4		BMEG	341	Biomedical Experiment Design & Analysis	3		
	BMEG	340	Biomedical Modeling and Simulation	3		BMEG	360	Biomedical Engineering Junior Design	2		
	MSEG	302	Materials Science for Engineers	3		BMEG	420	Biological Transport Phenomena	4		
			Technical Elective 1	3				Technical Elective 2	3		
				17					15		
Fourth Year											
	BMEG	450	Biomedical EG Design (DLE and Capstone)	6		PHIL	444	Medical Ethics (c)	3		
			Technical Elective 3	3				Technical Elective 4	3		
			Breadth Requirement Elective 3	3				Technical Elective 5	3		
			Breadth Requirement Elective 4	3				Technical Elective 6	3		
								Breadth Requirement Elective 5	3		
				15					15		

Total Credit Hours 126

- (a) Department will accept CHEM 103 General Chemistry in place of CHEM 107
- (b) Department will accept CHEM 108 General Chemistry for Life Sciences II in place of CHEM 104
- (c) PHIL 444 satisfies an upper level College of Engineering Breadth Requirement

Note: Minimum grade of C- is required in ENGL 110 and all Breadth Requirement courses.