BACHELOR OF SCIENCE IN BIOMEDICAL ENGINEERING

Cell, Tissue, & Organ Biomechanics Specializ	issue, & Organ Biomechanics Specialization (BME-CTO)			
Student:	Date:	2017-2018		
ID #:	Advisor:			

Catalogue

Year 1					
Semester 1	Cr	Status	Semester 2	Cr	Status
ENGR 002 - Graphical Communication	2		BME 001 - Intro to Biomedical Eng Design ⁴	2	
CHEM 031 - General Chemistry I	4		PHYS 031 - Physics for Engineers I	4	
Foundational Writing & Info Literacy ¹	3		MLRS 034 - Human Cell Biology	4	
MATH 021 - Calculus I	4		MATH 022 - Calculus II	4	
CS 020 - Programming for Engineers	3		CHEM 032 - General Chemistry II	4	
ENGR 050 - First Year Engr Seminar	1				
Total credits	17		Total credits	18	
Year 2					
Semester 1	Cr	Status	Semester 2	Cr	Status
EE 100 - Electrical Engr. Concepts I	4		ME 012 - Dynamics	3	
CE 001 - Statics	3		ME 014 - Mechanics of Solids	3	
ANPS 019 - Human Anatomy & Physiology	4		ANPS 020 - Human Anatomy & Physiology	4	
MATH 121 - Calculus III	4		ME 040 - Thermodynamics	3	
PHYS 125 - Physics for Engineers II	3		MATH 271 - Adv Engineering Mathematics	3	
			BME 081 - Biomedical Engineering Lab I	2	
Total credits	18		Total credits	18	
Year 3					
Semester 1	Cr	Status	Semester 2	Cr	Status
ME 101 - Materials Engineering	3		BME CTO Biomechanics Elective ³	3	
ME 143 - Fluid Mechanics	3		BME CTO Biomechanics Elective ³	3	
STAT 143 - Statistics for Engineering	3		BME CTO Biomechanics Elective ³	3	
MATH 122 - Applied Linear Algebra	3		BME CTO Biomechanics Elective ³	3	
BME 151 - Fall BME Workshop	1		BME 152 - Spring BME Workshop	1	
General Education Elective ²	3		General Education Elective ²	3	
Total credits	16		Total credits	16	
Vear 4					
Semester 1	Cr	Status	Semester 2	Cr	Status
BME CTO Technical Elective ⁵	3	Juitas	BME CTO Technical Elective ⁵	3	
BME CTO Technical Elective ⁵	3		BME CTO Technical Elective ⁵	3	
BME 187 - Capstone Design I	3		BME 188 - Capstone Design II	3	
BME 187 - Biomedical Eng Lab II	2		General Education Elective ²	3	
General Education Elective ²	3		General Education Elective ²	3	
Total credits	14		Total credits	15	
10iui creuils	14			15	

1. Foundational Writing and Information Literacy: Students must take either ENGS 001 or HCOL 085 (only if the student is enrolled in the Honors College). Students transferring from the College of Arts and Sciences can use a TAP class to fulfill this requirement.

Required General Education Elec (GenEd): 15cr of approved GenEd electives, including 3cr of D1 and 3cr of D1 or D2.
Cell, Tissue & Organ Biomechanics Electives: Any 100-level or higher ME course. CE, EE, ENGR, CS, MATH, STAT and life sciences courses with approval of BME advisor. At least 6 hours must be 100-level or above engineering courses.
First-Year Design Experience: Transfer students without applicable transfer credit have the option of either taking BME 001 or replacing the credits with engineering course work at the 100-level or higher.

5. BME CTO Technical Electives: CS 256, EXMS 240, HLTH 135, ME 201, ME 207, ME 208, ME 209, ME 285, ME 312*, MLRS 140, MLRS 175, MMG 223, MMG 231, MMG 232, MMG 233, MPBP 323*, PATH 101, PHRM 201, PHRM 240, PHRM 272, RMS 213, RMS 250, STAT 200 & STAT 211. Other courses may be pre-approved by advisor and program head. At least 9 credits must be at the 200-level or above. Note that 300-level courses (*) require instructor permission for undergraduate enrollment.