## **BIOMEDICAL ENGINEERING CURRICULUM**

BACHELOR OF SCIENCE IN BME -ACCELERATED PREHEALTH TRACK - FALL 2021 AND LATER

NAME: EMAIL: CUMULATIVE GPA:

Prerequisite	Cr	Semester	1st Year (Spring)	Prerequisite	Cr	Semester
None	3		BME 101- Freshman Seminar S		0	
co-req CHEM125	1		Chem 126 Chem II	Chem 125	3	
None	4		ENGL102	ENGL 101	3	
Phys 111A, Math 111/*	3		Math 112 Calc II	Math 111	4	
Phys 111A*	1		Phys 121 Physics II	Phys 111, Phys 121A*, Math	3	
None	2		Phys 121A Phys.IILab	Phys 111A	1	
None	3		BME 111 - Intro to Anatomy and P	None	3	
	17				17	
Prerequisite	Cr	Semester				
Math 112	2					
CHEM 126	3					
VARIOUS	3					
	8					
Prerequisite	Cr	Semester	2nd Year (Spring)	Prerequisite	Cr	Semester
Math 112	3		Math 222 Diff Equations	Math 112	4	
None	4		CHEM473 Biochemistry1	C in Chem244	3	
C in MATH 112, PHYS 121`	3		BME 210 Biomed Computing U	C in BME111, BME 301, CS101	3	
C in MATH 112, PHYS 121	3		Liberal Arts Literacy 3XX		3	
C in PHYS 111, CHEM 126	3		R120:102 BioII or R120:201 ***	None	4	
CHME243	3		BME491 **or 2nd year summer	Advisor Approval	3	
	2					
	21				20	
Prerequisite	Cr	Semester	3rd Year (Spring)	Prerequisite	Cr	Semester
BME301,BME302, MATH222, C in BME111	3		BME383 Meas Lab Phys Sys U	BME302,BME 310,& MATH 279	3	
	3		BME 496 Capstone Design II	BME 495	3	
	3		Capstone HSS 4XX	Senior Standing	3	
	3		Management GER - IE492	VARIOUS	3	
	3		Engineering Track Elective		3	
			Engineering Track Elective		3	
BME 386	3					
	20				18	
er unless otherwise labeld: (F-Fa	all only; <b>S</b> -Spring	only; <b>U</b> -also o	offered Summer)	TOTAL CREDITS	121	
Prerequisite	Cr	Semester	Additional Coursework	Prerequisite	Cr	Semester
	None co-req CHEM125 None Phys 111A, Math 111/* Phys 111A* None None  Prerequisite Math 112 CHEM 126 VARIOUS  Prerequisite Math 112 None C in MATH 112, PHYS 121 C in MATH 112, PHYS 121 C in PHYS 111, CHEM 126 CHME243  Prerequisite BME301,BME302, MATH222, C in BME111  BME372 OR MTSE301 OR (MECH BME320) OR (MECH B	None	None	None	None   3	None   3

<sup>\*\*</sup> this course is not required for accredited BME curriculum

Engineering Elective: Technical elective courses with sufficient engineering content: Generally any 300-level or higher courses with prefix BME, ME, CHE, EE, OPSE (excluding MECH320)

Advanced Science Elective: Generally any 300-level or higher science course with prefix CS, BIOL, MATH, PHYS, CHEM, IE, MTSE \*\*exceptions apply, check with your academic advisor Liberal Arts Literacy: A comprehensive list of 200 level GER courses: bit.ly/2TL9wXO and 300 level: bit.ly/2WG0mhc.

The BME department recommends STS221 or STS352 and STS359 for MCAT preparation

<sup>\*\*\*</sup> lab component of this course not required for accredited BME curriculum

<sup>\*\*\*</sup>Students who score a 5 on the AP Biology exam are recommended to take a higher level Biology sequence: Biol205/206 and Biol201/202, see advisor

<sup>\*</sup> For Liberal Arts Literacy, Engineering Electives and Sci or Engineering Electives please fill in the course number in the space provided in the Prerequisite column.