

BIOMEDICAL ENGINEERING CURRICULUM

BACHELOR OF SCIENCE IN BME - ACCELERATED PREHEALTH TRACK - FALL 2017 AND LATER

NAME: _____

ID: _____

1st Year (Fall)	Prerequisite	Cr	Semester	1st Year (Spring)	Prerequisite	Cr	Semester	1st Year (Summer)	Prerequisite	Cr	Semester
Chem 125 Chem I	None	3		Chem 126 Chem II	Chem 125	3		Liberal Arts Literacy 2XX	Hum 102	3	
BME 111 - Intro to Phys	None	3		Chem 124 Chem Lab	Chem 126	1		MATH 279	Math 112	2	
Writ, Speak, Think I: HUM 101	None	3		FED 101	None	2		CHEM 243	Chem 126	3	
Math 111 Calc I	None	4		Wri, Speak, Think II: HU	Hum 101	3					
Phys 111 Physics I	Phys 111A, Math 111	3		Math 112 Calc II	Math 111	4					
Phys 111A Phys I Lab	Phys 111A*	1		Phys 121 Physics II	Phys 111, Phys 121A*, Mat	3					
BME 101- Freshman Seminar F		0		Phys 121A Phys. II Lab	Phys 111A	1					
CS 101		3									
20				17				8			

2nd Year (Fall)	Prerequisite	Cr	Semester	2nd Year (Spring)	Prerequisite	Cr	Semester	2nd year Summer	Prerequisite	Cr	Semester
Math 211(13) Calc IIIA	Math 112	3		Math 222 Diff Equations	Math 112	4					
R120:101 (404) **	None	4		CHEM 473 Biochemsitry	Chem 244	3		BME 491		3	
BME 301 - Electrical Fund U	C in MATH 112, PHYS 121	3		BME 310 Biomed Compu	C in BME 111&BME 301, C	3					
BME 304 - Material Fund	C in BME 111, CHEM 126	3		Liberal Arts Literacy 3XX	Math 279 or 333	3					
BME 302 - Mech Fund U	C in MATH 112, PHYS 121	3		R120:102 (404) ***		4					
CHEM 244	Chem 243	3									
CHEM 244 A		2									
21				17				3			

3rd Year (Fall)	Prerequisite	Cr	Semester	3rd Year (Spring)	Prerequisite	Cr	Semester
BME382 Eng Mod Phys Sys	BME301,BME302, MATH222	3		BME383 Meas Lab Phys	BME302,BME 310,& MAT	3	
BME 495 Capstone Design I	BME 372 OR MTSE 301 O (MECH 236 & BME321)	3		BME 496 Capstone Desig	BME 495	3	
Engineering Track Elective	BME 385	3		Capstone HSS 4XX	Senior Standing	3	
Engineering Track Elective	VARIOUS	3		MGMT -IE 492	Junior Standing	3	
Engineering Track Elective	VARIOUS	3		Engineering Track Electiv	VARIOUS	3	
Engineering Track Elective	BME 492	3		Engineering Track Elective		3	
Liberal Arts Literacy 3XX		3					
21				18			

TOTAL CREDITS 125

All courses are offered Fall and Spring semester unless otherwise labeled: (F-Fall only; S-Spring only; U-also offered Summer)

** this course is not required for accredited BME curriculum *** lab component of this course 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, MATH, PHYS, CHEM, IE, MTSE **exceptions apply, chec

Liberal Arts Literacy: Courses to be included have the prefix Com, Eng, Hist, Lit, Phil, STS, and Thtr. The BME dept recommends STS221 or STS352 and STS359 for MCAT preparation

***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