

BIOMEDICAL ENGINEERING CURRICULUM

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

NAME: _____ **ID:** _____ **EMAIL:** _____ **CUMULATIVE GPA:** _____

1st Year (Fall)	Prerequisite	Cr	Semester	1st Year (Spring)	Prerequisite	Cr	Semester
Chem 125 Chem I	None	3		BME 101- Freshman Seminar S		0	
Chem 125A Chem Lab	co-req CHEM125	1		Chem 126 Chem II	Chem 125	3	
Math111CalcI	None	4		ENGL 102	ENGL 101	3	
Phys 111 Physics I	coreq PHYS 111A, MATH 111	3		Math 112 Calc II	MATH111	4	
Phys 111A Phys I Lab	PHYS 111A	1		Phys 121 Physics II	PHYS111, PHYS121A, MATH112*	3	
FED 101	ENGL 101 and (ENGR 101 and MATH 210) or MATH 111.			Phys 121A Phys.IILab	PHYS 111A	1	
ENGL 101Writ.Speak.ThinkI:	None	3		BME 111 - Intro to Anatomy and Pl	None	3	
		17				17	
1st Year (Summer)	Prerequisite	Cr	Semester				
Engr Prob & Stat: Math 279 (333)	Math 112	2					
CHEM 243 Org Chem	CHEM 126	3					
Liberal Arts Literacy 2XX	VARIOUS	3					
		8					
2nd Year (Fall)	Prerequisite	Cr	Semester	2nd Year (Spring)	Prerequisite	Cr	Semester
Math 211(13) Calc IIIA	Math 112	3		Math 222 Diff Equations	Math 112	4	
R120:101 BioI or Biol205/206 **	BIOL 200	4		CHEM 473 BiochemistryI	CHEM 244 or CHEM 245	3	
BME 301 - Electrical Fund U	MATH 112, PHYS 121	3		BME 210 Biomed Computing U	Sophomore Standing	3	
BME 302 - Mech Fund U	MATH 112, PHYS 121	3		Liberal Arts Literacy 3XX		3	
BME 304 - Material Fund	(CHEM 126 or CHEM 122) and PHYS 111	3		R120:102 BioII or R120:201 ***	None	4	
CHEM 244 Organic Chemistry II	CHEM243	3		BME 491 **or 2nd year summer	Advisor Approval	3	
CHEM 244A Orgo Lab **	CHEM125 A	2					
		21				20	
3rd Year (Fall)	Prerequisite	Cr	Semester	3rd Year (Spring)	Prerequisite	Cr	Semester
BME 382 Eng Mod Phys Sys	BME 111, BME 301, BME 302 and MATH 222	3		BME383 Meas Lab Phys Sys U	BME 302, (BME 210 or BME 310), (MATH 279 or MATH 333)	3	
Engineering Track Elective		3		BME 496 Capstone Design II	BME 495	3	
Engineering Track Elective		3		Capstone HSS 4XX	Senior Standing	3	
Engineering Track Elective		3		Management GER - IE492	VARIOUS	3	
Engineering Track Elective		3		Engineering Track Elective		3	
BME 495 Capstone Design I	Various- See Catalog. Senior Standing required	2		Engineering Track Elective		3	
Liberal Arts Literacy 3XX		3					
		20				18	
All courses are offered Fall and Spring semester unless otherwise labeled: (F-Fall only; S-Spring only; U-also offered Summer)						TOTAL CREDITS	121
Additional Coursework	Prerequisite	Cr	Semester	Additional Coursework	Prerequisite	Cr	Semester

Students must earn a grade of "C" or better to satisfy most course prerequisites.

*** 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.**

***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

** this course is not required for accredited BME curriculum

*** lab component of this course not required for accredited BME curriculum

STS221 or STS352 and STS359 for MCAT preparation