

# BIOMEDICAL ENGINEERING CURRICULUM

## Accelerated Pre-Health Track

NAME:	ID:	DATE:	Student Type:	Admit Term:							
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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		STS 210			3	
BME 111 - Intro to Phys		None	3		Chem 124 Chem Lab		Chem 126	1		MATH 279			2	
Writ, Speak, Think I: HUM 101		None	3		FED 101		None	2		R120:102 (404)			4	
Math 111 Calc I		None	4		Wri, Speak, Think II: HUM 102		Hum 101	3		CHEM 243			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*, Math 112*	3						
BME 101- Freshman Seminar <b>F</b>			0		Phys 121A Phys. II Lab		Phys 111A	1						
CS 101			3		BME 102		None	1						
			20					18					12	
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		STS221 Sociology		None	3	
R120:101 (404)		None	4		CHEM 473 Biochemsitry		Chem 243	3		BME 491			3	
BME 301 - Electrical Fund <b>U</b>		C in MATH 112, PHYS 121	3		BME 310 Biomed Computing <b>U</b>		C in BME 111&BME 301 , CS101	3		HUM 3XX - Open Hu		HUM 102 & HUM/HIST 2	3	
BME 304 - Material Fund		C in BME 111, CHEM 126	3		Engineering Track Elective		VARIOUS	3						
BME 302 - Mech Fund <b>U</b>		C in MATH 112, PHYS 121	3		Engineering Track Elective		VARIOUS	3						
CHEM 243 Org Chem		CHEM 126	3											
Chem 244 Org Chem Lab			2		Hist 2xx			3						
			21					19					9	
3rd Year (Fall)		Prerequisite	Cr	Semester	3rd Year (Spring)		Prerequisite	Cr	Semester					
BME382 Eng Mod Phys Sys		BME301,BME302, MATH222, C in BM	3		BME383 Meas Lab Phys Sys <b>U</b>		BME302,BME 310,& MATH 279	3						
BME 495 Capstone Design I		BME 372 OR MTSE 301 OR (MECH 236 & BME321)	3		PE 1xx/2xx		None	1						
Engineering Track Elective		VARIOUS	3		BME 496 Capstone Design II		BME 495	3						
Engineering Track Elective		VARIOUS	3		Capstone HSS 4XX		Senior Standing	3						
Engineering Track Elective		VARIOUS	3		MGMT390 - Pric of Management		Junior Standing	3						
PE 1xx/2xx		None	1		Engineering Track Elective		VARIOUS	3						
			16					16						
								<b>TOTAL CREDITS</b>	131					
<i>All courses are offered Fall and Spring semester unless otherwise labeled: (F-Fall only; S-Spring only; U-also offered Summer)</i> <i>Elective courses: OPSE 410,BME 321, BME 384, BME 351, BME 451, BME 478, IE 355, IE 449, BME 491 ,BME 492, OPSE 301, BME 479,</i> <i>BME 6xx Master's Level Engineering - Excluding BME 651 and BME 672), MATH 3xx/4xx Upper Level Mathematics Course - Excluding MATH 346, CHEM 473</i>														