

BIOMEDICAL ENGINEERING CURRICULUM

Bachelor of Science - Biomechanics Track

NAME: _____ ID: _____ DATE: _____ Student Type: _____ Admit Term: _____

1st Year (Fall)	Prerequisite	Cr	Semester	1st Year (Spring)	Prerequisite	Cr	Semester
Chem 125 Chem I	None	3		Chem 126 Chem II	Chem 125	3	
BME 111 - Intro to Phys	None	3		Chem 124 Chem Lab	Chem 126	1	
Writ, Speak, Think I: HUM 101	None	3		FED 101	None	2	
Math 111 Calc I	None	4		Wri, Speak, Think II: HUM 102	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*, Math 112*	3	
BME 101- Freshman Seminar F		0		Phys 121A Phys. II Lab	Phys 111A	1	
		17				17	
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	
Engr Prob & Stat: Math 279 (333)	Math 112	2		CHEM 243 Org Chem	CHEM 126	3	
BME 301 - Electrical Fund U	C in MATH 112, PHYS 121	3		BME 302 - Mech Fund U	C in MATH 112, PHYS 121	3	
BME 303 - Biological Fund F	C in BME 111, CHEM 126	3		BME 304 - Material Fund	C in BME 111, CHEM 126	3	
CS101 or BIOINF 135	None	3		2xx GUR:ECON/EPS/ST	None or HUM 102	3	
HUM/His 2XX	Hum 102	3		PE 1xx/2xx	None	1	
		17				17	
3rd Year (Fall)	Prerequisite	Cr	Semester	3rd Year (Spring)	Prerequisite	Cr	Semester
MATH 337 Linear Algebra	MATH 112	3		HUM 3XX - Open Hum Elect	HUM 102 & HUM/HIST 2x	3	
MECH 236 Dynamics	MECH 234 or 235 OR BME 302	2		PE 1xx/2xx	None	1	
BME 321 Adv Mech for BME F	C in BME302	3		BME351 - Intro to BioFluid Me	C in BME111, BME302, MECH236, BME321	3	
BME 310 Biomed Computing	C in BME 111&BME 301, CS101	3		BME382 Eng Mod Phys Sys	BME301, BME302, MATH222, C in BME111	3	
MGMT390 Princ of Management	Junior Standing	3		BME384 Biomech Lab S	C in BME111, BME302, MATH279, CS101 & BME321	3	
2xx GUR:ECON/EPS/ST	None or HUM102	3		Engineering Track Elective	VARIOUS	3	
		17				16	
4th Year (Fall)	Prerequisite	Cr	Semester	4th Year (Spring)	Prerequisite	Cr	Semester
3XX HUM:LIT/HIST/PHIL/STS	HUM 102 & HUM/HIST 2xx	3		Nonengineering Track Elective	VARIOUS	3	
Engineering Track Elective	VARIOUS	3		BME452 Mech. B&P Biomat. S	BME302, BME 304, MATH 222, MATH 337,	3	
Nonengineering Track Elective	VARIOUS	3		BME478 Intro CAD Biomech S	BME302 & BME321	3	
BME383 Meas Lab Phys Sys	BME302, BME 310, & MATH 279	3		BME 496 Capstone Design II	BME 495	3	
BME451 Biomechanics I F	MECH236 & BME321	3		Capstone HSS 4XX	Senior Standing	3	
BME 495 Capstone Design I	BME 372 OR MTSE 301 OR (MECH 236 & BME321)	3					
		18				15	
Additional Coursework	Prerequisite	Cr	Semester	Additional Coursework	Prerequisite	Cr	Semester

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

TOTAL CREDITS 134

Elective courses: OPSE 301, MATH 3xx/4xx Excluding MATH 346, PHYS 350, PHYS 451, OPSE 310, OPSE 402, OPSE 410, BME 385, BME 422, BME 427, BME 479, IE 355, IE 449, ECE 431, ECE 435, ECE 436, ECE 438, BME 491, BME 31, BME 492, BME 6xx, ME 435, CHEM 244