

# Bachelor of Science in Biomedical Engineering

2016-2017

## Suggested Plan of Study – Fall 2016 Transfer Admission

Term	CR	Course	Offered	Alt courses/Prerequisites and Corequisites
Term 5		<i>Fall</i>		
BME1008	1	Introduction to Biomedical Engineering	F, S	
COP2271	2	Computer Programming for Engineers (Matlab or C++)	S, F, Su	Alt course: COP3275/COP3502/others (with approval)
COP2271L	1	Computer Programming for Engineers Lab (same language)	S, F, Su	Alt course: COP3275/COP3502/others (with approval)
EEL3111C	4	Circuits 1	F, S, Su	Prereq: MAC2312 and PHY2049
EGM2511	3	Engineering Mechanics: Statics (Biomechanics track prereq)	F, S, Su	EGM2511 Prereq: PHY2048; Coreq: MAC2313
EMA3010	3	Materials (Biomaterials track prereq)	F, S, Su	EMA3010 Prereq: CHM2045
Term Credits	14			
Term 6		<i>Spring</i>		
BME3060	3	Biomedical Fundamentals	F, S	Prereq: CHM2046 or CHM2096 and MAC2313 with min grades of C; Coreq: PHY2049, MAP 2302, and BME1008
ENC3246	3	Professional Communication for Engineers	F, S, Su	Prereq: ENC1101 or ENC1102
PCB3713C	4	Cellular and Systems Physiology	S	Prereq: BSC2010 and CHM2046, CHM2047, or CHM2096 and PHY2048 or PHY2060, all with min grades of C; Coreq: PHY2049 or PHY2061
STA3032	3	Engineering Statistics	F, S, Su	Prereq: MAC2311
Term Credits	13			
Term 7		<i>Fall</i>		
BME3053C	2	Computer Applications for BME	F, S	Prereq: COP2271 and COP2271L or equivalent and MAC2312, with min grades of C
BME4409	3	Quantitative Physiology	F, S	Prereq: BME3060, PCB3713C, and MAP2302 with min grades of C
BME4503	3	Biomedical Instrumentation	F	Prereq: MAC2313, MAP2302, and PHY2049, and EEL3111C with min grades of C
BME4503L	1	Biomedical Instrumentation Lab	F	Prereq: MAC2313, MAP2302, and PHY2049 with min grades of C
BME Track	3		Varies	
Term Credits	12			
Term 8		<i>Spring</i>		
BME4632	3	Biomedical Transport Phenomena	S	Prereq: BME3060 with min grade of C
BME Track	9		Varies	
Term Credits	12			
Term 9		<i>Fall</i>		
BME3323L	3	Cellular Engineering Lab	F, S	Prereq: BSC2010 and CHM2046 with min grades of C; Coreq: BCH4024 and PCB3713C
BME4311	3	Molecular Biomedical Engineering	F, S	Prereq: BSC2010, CHM3217, and PCB3713C with min grades of C
BME4531	3	Medical Imaging	F	Prereq: MAC2313, MAP2302, and PHY2049 with min grades of C
BME4882	3	Senior Design, Professionalism and Ethics 1	F	Prereq: BME4503, BME4503L, BME4409, and senior standing
Term Credits	12			

Term 10		<i>Spring</i>		
BME4621	3	Biomedical Thermodynamics and Kinetics	S	Prereq: BME3060 and BME4311
BME4883	3	Senior Design, Professionalism and Ethics 2	S	
BME Track	3		Varies	
Term Credits	9			
<b>Upper Div</b>	<b>72</b>			

BME Track: 15 credits of 3000/4000-level courses selected from approved lists (see BME website or advisor for options).

Term	CR	Course	Offered	Alt courses/Prerequisites and Corequisites
Term 5		<i>Spring</i>		
BME1008	1	Introduction to Biomedical Engineering	F, S	
BME3060	3	Biomedical Fundamentals	F, S	Prereq: CHM2046 or CHM2096 and MAC2313 with min grades of C; Coreq: PHY2049, MAP 2302, and BME1008
COP2271	2	Computer Programming for Engineers (Matlab or C++)	S, F, Su	Alt course: COP3275/COP3502/others (with approval)
COP2271L	1	Computer Programming for Engineers Lab (same language)	S, F, Su	Alt course: COP3275/COP3502/others (with approval)
EMA3010	3	Materials (Biomaterials track prereq)	F, S, Su	EMA3010 Prereq: CHM2045
PCB3713C	4	Cellular and Systems Physiology	S	Prereq: BSC2010 and CHM2046, CHM2047, or CHM2096 and PHY2048 or PHY2060, all with min grades of C; Coreq: PHY2049 or PHY2061
Term Credits	14			
Term 6		<i>Summer</i>		
EEL3111C	4	Circuits 1	F, S, Su	Prereq: MAC2312 and PHY2049
ENC3246	3	Professional Communication for Engineers	F, S, Su	Prereq: ENC1101 or ENC1102
STA3032	3	Engineering Statistics	F, S, Su	Prereq: MAC2311
Term Credits	10			
Term 7		<i>Fall</i>		
BME3053C	2	Computer Applications for BME	F, S	Prereq: COP2271 and COP2271L or equivalent and MAC2312, with min grades of C
BME4409	3	Quantitative Physiology	F, S	Prereq: BME3060, PCB3713C, and MAP2302 with min grades of C
BME4503	3	Biomedical Instrumentation	F	Prereq: MAC2313, MAP2302, and PHY2049, and EEL3111C with min grades of C
BME4503L	1	Biomedical Instrumentation Lab	F	Prereq: MAC2313, MAP2302, and PHY2049 with min grades of C
BME Track	3		Varies	
Term Credits	12			
Term 8		<i>Spring</i>		
BME4632	3	Biomedical Transport Phenomena	S	Prereq: BME3060 with min grade of C
BME Track	6		Varies	
EGM2511	3	Engineering Mechanics: Statics (Biomechanics track prereq)	F, S, Su	EGM2511 Prereq: PHY2048; Coreq: MAC2313
Term Credits	12			
Term 9		<i>Fall</i>		
BME3323L	3	Cellular Engineering Lab	F, S	Prereq: BSC2010 and CHM2046 with min grades of C; Coreq: BCH4024 and PCB3713C
BME4311	3	Molecular Biomedical Engineering	F, S	Prereq: BSC2010, CHM3217, and PCB3713C with min grades of C
BME4531	3	Medical Imaging	F	Prereq: MAC2313, MAP2302, and PHY2049 with min grades of C
BME4882	3	Senior Design, Professionalism and Ethics 1	F	Prereq: BME4503, BME4503L, BME4409, and senior standing
Term Credits	12			

Term 10		<i>Spring</i>		
BME4621	3	Biomedical Thermodynamics and Kinetics	S	Prereq: BME3060 and BME4311
BME4883	3	Senior Design, Professionalism and Ethics 2	S	
BME Track	6		Varies	
Term Credits	12			
<b>Upper Div</b>	<b>72</b>			

BME Track: 15 credits of 3000/4000-level courses selected from approved lists (see BME website or advisor for options).