

Bachelor of Science in Biomedical Engineering

Suggested Plan of Study – Fall Transfer Admission

Term	CR	Course	Offered	Alt courses/Prerequisites and Corequisites
Term 5		Fall		
BME1008	1	Introduction to Biomedical Engineering	F, S	
CHM2211*	3	Organic Chemistry 2	F, S, Su	Prereq: CHM2210 with a min grade of C
EEL3111C	4	Circuits 1	F, S, Su	Prereq: MAC2312 and PHY2049
EGM2511 or EMA3010	3	Engineering Mechanics: Statics (Biomechanics track prereq) Materials (Biomaterials track prereq)	F, S, Su	EGM2511 Prereq: PHY2048; Coreq: MAC2313 EMA3010 Prereq: CHM2045
ENC3246	3	Professional Communication for Engineers	F, S, Su	Prereq: ENC1101 or ENC1102
<i>Term Credits</i>	<i>14</i>			
Term 6		Spring		
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)
EGM2511 or EMA3010	3	Engineering Mechanics: Statics (Biomechanics track prereq) Materials (Biomaterials track prereq)	F, S, Su	EGM2511 Prereq: PHY2048; Coreq: MAC2313 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
<i>Term Credits</i>	<i>13</i>			
Term 7		Fall		
BME3053C	2	Computer Applications for BME	F, S	Prereq: COP2271 and COP2271L or equivalent and MAC2312, with min grades of C
BME4311	3	Molecular Biomedical Engineering	F, S	Prereq: BSC2010, CHM3217, and PCB3713C 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, S	Prereq: MAC2313, MAP2302, and PHY2049, and EEL3111C with min grades of C
BME4503L	1	Biomedical Instrumentation Lab	F, S	Prereq: MAC2313, MAP2302, and PHY2049 with min grades of C
<i>Term Credits</i>	<i>12</i>			
Term 8		Spring		
BME 3323L	3	Cellular Engineering Lab	F, S	Prereq: BSC2010 and CHM2046 with min grades of C; Coreq: BCH4024 and PCB3713C
BME4621	3	Biomedical Thermodynamics and Kinetics	F, S	Prereq: BME3060 and BME4311
BME4632	3	Biomedical Transport Phenomena	F, S	Prereq: BME3060 with min grade of C
STA3032	3	Engineering Statistics	F, S, Su	Prereq: MAC2311
<i>Term Credits</i>	<i>12</i>			

Term	CR	Course	Offered	Alt courses/Prerequisites and Corequisites
Term 9		Fall		
BME4531	3	Medical Imaging	F	Prreq: 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
BME Track	6		Varies	
<i>Term Credits</i>	<i>12</i>			
Term 10		Spring		
BME4883	3	Senior Design, Professionalism and Ethics 2	S	
BME Track	9		Varies	
<i>Term Credits</i>	<i>12</i>			
Upper Div	75			

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

Bachelor of Science in Biomedical Engineering

Suggested Plan of Study – Spring Transfer Admission

Term	CR	Course	Offered	Alt courses/Prerequisites and Corequisites
Term 5		Spring		
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)
EGM2511 or EMA3010	3	Engineering Mechanics: Statics (Biomechanics track prereq) Materials (Biomaterials track prereq)	F, S, Su	EGM2511 Prereq: PHY2048; Coreq: MAC2313 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
<i>Term Credits</i>	<i>14</i>			
Term 6		Summer		
CHM2211*	3	Organic Chemistry 2	F, S, Su	Prereq: CHM2210 with a min grade of C
EEL3111C	4	Circuits 1	F, S, Su	Prereq: MAC2312 and PHY2049
EGM2511 or EMA3010	3	Engineering Mechanics: Statics (Biomechanics track prereq) Materials (Biomaterials track prereq)	F, S, Su	EGM2511 Prereq: PHY2048; Coreq: MAC2313 EMA3010 Prereq: CHM2045
ENC3246	3	Professional Communication for Engineers	F, S, Su	Prereq: ENC1101 or ENC1102
<i>Term Credits</i>	<i>13</i>			
Term 7		Fall		
BME3053C	2	Computer Applications for BME	F, S	Prereq: COP2271 and COP2271L or equivalent and MAC2312, with min grades of C
BME4311	3	Molecular Biomedical Engineering	F, S	Prereq: BSC2010, CHM3217, and PCB3713C 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, S	Prereq: MAC2313, MAP2302, and PHY2049, and EEL3111C with min grades of C
BME4503L	1	Biomedical Instrumentation Lab	F, S	Prereq: MAC2313, MAP2302, and PHY2049 with min grades of C
<i>Term Credits</i>	<i>12</i>			
Term 8		Spring		
BME 3323L	3	Cellular Engineering Lab	F, S	Prereq: BSC2010 and CHM2046 with min grades of C; Coreq: BCH4024 and PCB3713C
BME4621	3	Biomedical Thermodynamics and Kinetics	F, S	Prereq: BME3060 and BME4311
BME4632	3	Biomedical Transport Phenomena	F, S	Prereq: BME3060 with min grade of C
STA3032	3	Engineering Statistics	F, S, Su	Prereq: MAC2311
<i>Term Credits</i>	<i>12</i>			

Term	CR	Course	Offered	Alt courses/Prerequisites and Corequisites
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Term 9		Fall		
BME4531	3	Medical Imaging	F	Prreq: MAC2313, MAP2302, and PHY2049 with min grades of C
BME4882	3	Senior Design, Professionalism and Ethics 1	F	Prreq: BME4503, BME4503L, BME4409, and senior standing
BME Track	6		Varies	
<i>Term Credits</i>	<i>12</i>			
Term 10		Spring		
BME4883	3	Senior Design, Professionalism and Ethics 2	S	
BME Track	9		Varies	
<i>Term Credits</i>	<i>12</i>			
Upper Div	75			

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