

		Name:	Entered program:	
Quarter	Course	Biomechanics Track		Category (Credit)
		Credit	Engrg credit	
1 st Year Fall	Hum 101, Eng Composition I			
	Physics, Physics 111, Physics I			
	Physics, Physics 111A, Physics Lab			
	Physics, Physics 111W, Physics Workshop			
	Chemistry, Chem 125, General Chemistry I			
	Math, Math 111, Calculus I			
	FED, Fundamentals of Eng Design			2.00
	Biomedical Engr, BME 105, Intro to Human Physiology			
1 st Year Spring	Hum 102, Eng Composition II			
	Physics, Phys 121, Physics II			
	Physics 121A Physics II Laboratory			
	Chemistry, Chem 124, Gen Chem Lab			
	Chemistry, Chem 126, Gen Chem II			
	Computer Science, CS 101, Computer Programming and Problems Solving			
	Math, Math 112, Calculus II			

2 nd Year, Fall	Biomedical Engineering, BME 106, Introduction to Human Physiology II		
	History, History 2xx – Communication, Cultural History		
	Biomedical Engineering, BME 301, Intro to BME I , Electrical Foundations		3.00
	Biomedical Engineering, BME 302, Intro to BME II, Mechanical Foundations		3.00
	BME 303 or R120-102		
	Math, Math 211, Calculus III		
	Math 225 or Math 279 or Math 333		
2 nd Year Spring	Humanities, Basic Social Science		
	Biomedical Engr, BME 310, Biomedical Computing		3.00
	Civil Engineering, Mech 320, Statics and Strength of Materials		3.00
	Math, Math 337, Linear Algebra		
	Math , Math 222, Differential Equations		
	Physical Education		
3 rd Year, Fall	Basic Social Science		
	BME 381, Engineering Models of Physiology 1 or BME 383 (Lab)		3.00

3 rd Year, Spring	Civil Engineering, Mech 236, Dynamics		2.00
	Chemistry, Chem 243, Organic Chemistry I		3.00
	BME 420, Biomaterials and Compatibility		3.00
	Physical Education		
	Open Elective in Humanities and Soc Sci		
	BME 382, Engineering Models of Physiology II or BME 383 (lab)		3.00
	BME 384, Experimental Procedures in Biomech		3.00
	BME 351, Biofluids		3.00
	BME 478, Introduction to CAD for Biomechanic		3.00
4 th Year, Fall			
	Mngmt 390, Principles of Management		
	Biomedical Engineering, BME 495, Capstone Design I		3.00
	BME 451, Biomechanics I		3.00
	Biomechanics Engineering Track Elective		3.00
	Biomechanics Track Elective		
	Biomechanics Track Elective		

4th Year, Spring	Humanities/Social Science, Capstone Seminar		
	Humanities, Literature, History, Philosophy STS, History		
	Biomedical Engineering, BME 496, Capstone Design II		3.00
	BME 452, Biomechanics II		3.00
	Biomechanics Track Elective		
		0.00	52.00

Biomechanics Approved Electives

Sci/Math Engrg

	Sci/Math	Engrg
Optical Science and Engineering, OPSE 301, Introduction to Optical Science & Engineering	3 credits	
Math 3xx or 4xx With approval ; No Math 371 or Math 346	3 credits	
Chemistry, Chem 244, Organic Chemistry II	3 credits	
Optical Science and Engineering, OPSE 310, Virtual Instrumentation		3 credits
Optical Science and Engineering, OPSE 402, High Power Laser and Photonics Applications		3 credits
Optical Science and Engineering, OPSE 410, Biophotonics		3 credits
Biomedical Engineering, BME 383, Engineering Physiology Lab		3 credits
Biomedical Engineering, BME 384, Biomechanics Laboratory		3 credits
Biomedical Engineering, BME 385, Cell And Biomaterial Engineering Lab		3 credits
Biomedical Engineering, BME 479, BioMicroElectroMechanical Systems		3 credits

Biomedical Engineering, BME 422, Biomaterials Characterization		3 credits
Biomedical Engineering, BME 427, Biotransport		3 credits
Industrial Engineering, IE 355, Human Factors		3 credits
Industrial Engineering, IE 449, Industrial Robotics		3 credits
Material Science and Engineering, MTSE 301, Principles of Material Science and Engineering		3 credits
Biomedical Engineering, BME 491, BME Research and Independent Study I		3 credits
Biomedical Engineering, BME 492, BME Research and Independent Study II		3 credits

The following graduate courses are also accepted, with Approval. These courses can also be applied to the BS/MS program for qualified students

<u>BME 667 - SYSTEMS STUDY IN BIOENGINEERING</u>	3 credits
<u>BME 669 - ENGINEERING PHYSIOLOGY</u>	3 credits
<u>BME 670 - INTRO TO BIOMECH ENGR</u>	3 credits
<u>BME 671 - BIOMECH OF HUM STR MOTN</u>	3 credits
<u>BME 672 - BIOMATERIALS</u>	3 credits
<u>BME 698 - ST:ADV CAD FOR ORTHOPEDIC DEVICE</u>	3 credits
<u>BME 698 - ST:ADV CHARACTERIZTN OF BIOMATER</u>	3 credits

<u>BME 698 - ST:CAD FOR BIOMECH & BIOMATERIAL</u>	3
	credits
<u>BME 698 - ST:INSTRUMENTATION PHYSIO MEASUR</u>	3
	credits
<u>BME 698 - ST:INTRO TO BIOMEMS & MICROFLUID</u>	3
	credits
<u>BME 698 - ST:MEDICAL DEVICE DESIGN</u>	3
	credits
<u>BME 698 - ST:MEDICAL IMAGING</u>	3
	credits
<u>BME 698 - ST:NEUROMUSCULAR ENGINEERING</u>	3
	credits
<u>BME 651 - PRINCIPLES OF TISSUE ENGINEETING</u>	3
	credits
<u>BME 661 - NEURAL ENGINEERING</u>	3
	credits
<u>BME 687 - MEDICAL INSTRUMENTATION</u>	3
	credits
<u>BME 698 - ST:BIOMEDICAL SIGNAL PROC & ACQ</u>	3
	credits
<u>BME 698 - ST:BIOMEMS DESIGN & RESEARCH</u>	3
	credits
<u>BME 698 - ST:BIROBOTICS</u>	3
	credits
<u>BME 698 - ST:CARDIOAVASCULAR MECHANICS</u>	3
	credits
<u>BME 698 - ST:CELL & MOLECULAR TISSUE ENGR</u>	3
	credits
<u>BME 698 - ST:EXPERIMENTAL DESIGN</u>	3
	credits

BME 698 - ST:INTRO COMPUTATIONAL BIOMECH 3
credits

BME 698 - ST:INTRO TO CAD-ORTHOPEDIC DEVIC 3
credits

BME 698 - ST:MEDICAL IMAGE INST & PROCESS 3
credits

BME 698 - ST:MODELING PHYSIOLOGICAL SYSTEM 3
credits

BME 698 - ST:ORTHOPEDIC MEDICAL DEVICES 3
credits

BME 698 - ST:SEM NEUROMUSCULAR REHAB 3
credits

BME 698 - ST:VIRTUAL BIOMED INSTRUMENTS 3
credits