

Table 2: Biomedical Engineering

Dual Degree Program Wisconsin Lutheran College PHYSICS and University of Wisconsin- Milwaukee BIOMEDICAL ENGINEERING			
UW-MILWAUKEE REQUIREMENTS			
Course/Credits required to earn the UWM Degree	Credits	Fulfilled by WLC Degree (X = yes, blank = no)	Still to be completed at UWM (X = yes, blank = no)
General Education Requirements			
Arts	3	X	
Humanities	6	X	
Social Sciences	6	X	
Cultural Diversity		X	
Competencies		X	
Natural Science Requirements			
PHYSICS 209 Physics I	4	X	
PHYSICS 214 Lab Physics I	1	X	
PHYSICS 210 Physics I	4	X	
PHYSICS 215 Lab Physics II	1	X	
BIO SCI 202 Anatomy & Physiology I	4		X
BIO SCI 203 Anatomy & Physiology II	4		X
Mathematics Requirements			
MATH 231 Calculus and Analytic Geometry	4	X	
MATH 232 Calculus and Analytic Geometry	4	X	
MATH 233 Calculus and Analytic Geometry	4	X	
ELECENG 234 Analytical Methods in Engineering	4	X	
Engineering Core Requirements			
CIV ENG 201 Statics	3		X
CIV ENG 202 Dynamics	3	X	
EAS 200 Professional Seminar	1		X
ELECENG 301 Electrical Circuits I	3		
IND ENG 467 Intro Statistics Physical Sciences & Engineering	3		X
MATLENG 201 Basic Engineering Materials	4		X
MECHENG 101 Computational Tools for Engineering	2		X
MECHENG 301 Basic Engineering Thermodynamics	3	X	
Biomedical Engineering Major Requirements			
BME 101 Fundamentals of Biomedical Engineering	3		X
BME 320 Engineering of Biomedical Devices I	3		X
BME 325 Engineering of Biomedical Devices II	3		X
BME 385 Introduction to Biomaterials	3		X
BME 495 Biomedical Instrumentation Lab/Senior Lab	3		X
BME 595 Capstone Design Project	4		X
ELECENG 305 Electrical Circuits II	4		X
ELECENG 310 Signals & Systems	3		X
MECHENG 469 Introduction to Biomechanical Engineering	3		X
MECHENG 474 Introduction to Control Systems	4		X
Biomedical Engineering Technical Electives – 16 Credits			
CHEM 102 General Chemistry I	5	X	
Remaining Technical Electives	11		X
Total Credits - Biomedical Engineering Major	120	52	68