

Biomechanics and Mechanobiology Track, 2017-2018

Freshman	Credits
CHEM 1127Q – General Chemistry	4
MATH 1131Q – Calculus I	4
CSE 1010 – Introduction to Computing for Engineers	3
ENGL 1010 – Sem in Academic Writing OR ENGL 1011 Sem in Writing Through Lit	4
ENGR 1000 – Orientation to Engineering	1
	16
CHEM 1128Q – General Chemistry	4
MATH 1132Q – Calculus II	4
BIOL 1107 – Principles of Biology	4
ENGR 1166 – Foundations of Engineering (BME section)	3
	15
Sophomore	
PHYS 1501Q – Physics for Engineers I	4
MATH 2110Q – Multivariable Calculus	4
CE 2110 – Applied Mechanics I	3
PNB 2264 – Human Physiology & Anatomy	4
STAT 3025Q – Statistical Methods (Calculus Level)	3
	18
PHYS 1502Q – Physics for Engineers II	4
BME 3120 – LabView Basics for Engineers	1
MSE 2101 – Materials Science & Engineering I	3
ECE 2001 – Electrical Circuits	4
MATH 2410Q – Elementary Differential Equations	3
MATH 2210Q – Applied Linear Algebra	3
	18
Junior	
BME 3600 - Biomechanics	4
BME Elective	3
Content Area 1, not PHIL	3
ME 2233 - Thermodynamic Principles	3
CE 2120 - Applied Mechanics II (CE 2110)	3
	16
BME 3900 - Junior Design	3
Content Area 2, SOC SCI	3
CE 3110 - Mechanics of Materials	3
MSE 3020 - Failure Analysis	3
BME Elective	3
BME Elective or Track Elective	3
	18
Senior	
BME 4900 - Senior Design I	3
PHIL 1104 - Philosophy and Ethics	3
Content Area 2, SOC SCI	3
ME 3227 - Design of Machine Elements or ME 3255 - Computational Mechanics	3
Track Elective	3
	15
BME 4910W - Senior Design II	3
ME 3250 - Fluid Dynamics I	3
Content Area 4, DIVER	3
Content Area 4, INTER	3
Track Elective	3
	15
Total Credits	131

BMM Track Electives, 2017-2018**Solids**

ME 3253 Linear Systems Theory

ME 3255 Computational Mechanics

MSE 3004 Mechanical Behavior of Materials

Fluids

ME 2234 Applied Thermodynamics

ME 3214 Dynamics of Particles and Rigid Bodies

ME 3250 Fluid Dynamics I

ME 3251 Fluid Dynamics II

ME 3253 Linear Systems Theory

ME 3275 Introduction to Computational Fluid Dynamics

Dynamics

ME 3224 Analysis and Design of Mechanisms

ME 3253 Linear Systems Theory

ME 5105 Basic Concepts of Continuum Mechanics (Requires substitution)

ECE 3101 Signals and Systems

ECE 4095 Special Topics in ECE: Introduction to Robotics (This Topic Only)

BMM BME Electives, 2017-2018

BME 3500 Biomedical Engineering Measurements

BME 3700 Biomaterials

BME 4201 Introduction to Medical Imaging

BME 4600 Biosolid Mechanics