

Biomechanics

Core Courses

MAE 4130 Mechanics of Composite Structures

MAE 5700 Finite Element Analysis for Mechanical and Aerospace Design

Follow-on courses include:

BME 5500 Innovation and Design of Biomedical Technologies

BME 5390 Biomedical Materials and Devices for Human Body Repair

DEA 3510 Human Factors and Inclusive Design

MAE 4660 Biomedical Engineering Analysis of Metabolic and Structural Systems

MAE 5640 Orthopaedic Tissue Mechanics

MAE 5650 Biofluid Mechanics

MAE 6620 Biomedical Technologies for Point-of-Care Diagnostics and Mobile and Global Health

MAE 6640 Mechanics of Bone

MAE 6650 Principles of Tissue Engineering (not offered 2018-19)

MAE 6670 Soft Tissue Biomechanics II: Viscoelasticity and Plastic Theory

MAE 6690 Biofluid Mechanics and Physiological Transport (not offered 2019-20)

MSE 4610 Biomedical Materials and Their Applications

MSE 5710 Analytical Techniques for Material Science