# 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: Viscoelasticty and Phasic 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