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 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