

Engineering Fundamentals: Biomechanics & Mechanobiology

Use this list of engineering courses to fulfill your engineering fundamentals within this track. Courses are chosen with the assistance of the student's advisor, with final approval by the Graduate Committee.

Required Engineering (2 of the following):

- BMED/ME 6743: Tissue Mechanics
- BMED/ME 6720: Biotransport
- CHBE 6260: Mass Transfer
- ME 4340: Applied Fluid Dynamics
- ME 6201: Principles of Continuum Mechanics
- ME 6206: Viscoelasticity
- ME 6401: Linear Control Systems
- ME 6407: Robotics
- ME 6441: Dynamics Mechanical Systems
- ME 6601: Introduction to Fluid Mechanics

Other recommended engineering (any of the above courses or those listed below):

- APPH 6225: Biostatistics
- APPH: Biomechanical Aspects of Motor Control
- APPH 6232: Locomotion Neuromechanics
- BMED 6041: Analytical Methods
- BMED 6700: Biostatistics (if not available, then ISYE 6420)
- BMED 6780: Medical Image Processing
- BMED/ME 6784: Cardiovascular Biomechanics
- BMED 6786: Medical Imaging Systems
- BMED 8813: Neurophysiology
- CHBE 6765: Drug Design Development and Delivery
- ISYE 6401: Stat Models & Dsgn Expts
- ISYE 6416: Computational Statistics
- ME 3340: Fluid Mechanics
- ME 6402: Nonlinear Control Systems
- ME 6403: Digital Control Systems
- ME 6782: Cellular Engineering
- ME 6796: Structure-Property Relationships in Materials
- ME 7772: Fundamentals in Fracture Mechanics
- ME 7774: Fundamentals of Fatigue
- DPT 988: Engineering-Rehabilitation Interface