### Areas of Concentration

- Noise and Vibration Control
- Advanced Materials and Manufacturing
- Advanced Propulsion & Energy Systems
- Cross Listed Courses with Biomedical

### Special Courses on New Topics

- ME 5995: Prereq: Senior or Graduate Standing
- ME 7995: Prereq: Graduate Standing
- ME 7997: 0 credit Graduate Seminar

### Directed Studies

- ME 5900: Prereq: Consent of Graduate Student's Advisor
- ME 5990: Prereq: Graduate Standing & Consent of ME GPO
- ME 7990: Prereq: Consent of Student's Advisor

### MSME Thesis

- ME 8999: 8 credits Consent of Student's Advisor

### Ph.D. Program

- ME 9990: 1 - 8 credits Consent of ME GPO & Graduate School
- ME 9991: 75 credits Ph.D. Candidate Status I Consent of GPO & Graduate School
- ME 9992: 75 credits Ph.D. Candidate Status II Consent of GPO & Graduate School
- ME 9993: 75 credits Ph.D. Candidate Status III Consent of GPO & Graduate School
- ME 9994: 75 credits Ph.D. Candidate Status IV Consent of GPO & Graduate School
- ME 9995: 0 credits Ph.D. Candidate Maintenance Status Consent of GPO & Graduate School

### Internship in Industry

- ME 6991: 1 - 4 credits Consents of Student's Advisor and ME GPO

### Core Course

- ME 5000: Prereq: Consent of Graduate Student's Advisor
Concentration in Biomedical Engineering

- ME 5180/BME 5370
  Prereq: BMS 6550 and BE 1300

- ME 5160/BME 5210
  Prereq: BMS 6550

- ME 5100/BME 5010
  Prereq: BMS 5005 or Consent of Instructor

- ME 7100/BME 7100
  Prereq: BMS 6550 and ME 3400

- ME 7150/BME 7160
  Prereq: BMS 6550

- ME 7195/BME 7210
  Prereq: BMS 6550

- ME 6180/BME 6480
  Prereq: BMS 6550 and ECE 3380 & BME 5020

- OR - ME 7180/BME 7300

- OR - ME 5170/BME 5570

Senior or Graduate Standing

- 5100 (BME 5010) Engineering Physiology Cr. 4
- 5160 (BME 5210) Musculoskeletal Biomechanics, Cr. 4
- 5170 (BME 5570) Design of Human Rehabilitation Systems, Cr. 4
- 5180 (BME 5370) Introduction to Biomaterials, Cr. 4
- 6180 (BME 6480) Biomedical Instrumentation, Cr. 4
- 7100 (BME 7100) Mathematical Modeling in Impact Biomechanics, Cr. 4
- 7160 (BME 7160) Impact Biomechanics Cr. 4
- 7180 (BME 7300) Advanced Topics in Biomaterials and Tissue Biomechanics, Cr. 4
- 7195 (BME 7210) Tissue Biomechanics, Cr. 4