Fall 2023 Career Gateway Electives

**Updated 04/03/2023**

### Energy Systems Engineering
- ME 337C: Introduction to Nuclear Power Systems
- ME 343: Thermal Fluid Systems (REQUIRED)
- ME 360N: Intermediate Heat Transfer
- ME 378E: Nanotechnology for Sustainable Energy

### Nuclear & Radiation Engineering
- ME 337C: Introduction to Nuclear Power Systems
- ME 336P: Concepts in Nuclear & Radiation Engineering
- ME 337F: Nuclear Environmental Protection

### Advanced Materials Engineering
- ME 336: Materials Processing (REQUIRED)
- ME 349: Corrosion Engineering
- ME 350: Machine Tool Operations for Engineers
- ME 359: Materials Selection
- ME 378K: Mechanical Behavior of Materials (REQUIRED)

### Automotive & Vehicle Systems Engineering
- ME 379N: Engineering Acoustics

### Design & Manufacturing
- ME 336: Materials Processing
- ME 350: Machine Tool Operations for Engineers
- ME 359: Materials Selection
- ME 368C: Additive Manufacturing
- ME 371D: Medical Device Design & Manufacturing
- ME 379M: Theory & Design of Mechanical Measurement

### Dynamic, Vibrations, Acoustics & Controls
- ME 364L: Automatic Control System Design
- ME 379N: Engineering Acoustics
- ME 379M: Theory & Design of Mechanical Measurement

### Industrial Engineering & Management
- ME 366L/ORI 366: Operations Research Models
- ME 369P: Programming for Engineers

### Biomedical & Biomechanical Engineering
- ME 354M: Biomechanics of Human Movement
- ME 371D: Medical Device Design & Manufacturing

### Humanitarian Engineering
- ME 337F: Nuclear Environmental Protection
- ME 354M: Biomechanics of Human Movement
- ME 371D: Medical Device Design & Manufacturing
- ME 378E: Nanotechnology for Sustainable Energy

### Robotics & Mechatronics
- **REQUIRED MECHATRONICS COURSES:**
  - ME 348E/ME 392Q.6: Advanced Mechatronics I
- **REQUIRED ROBOTICS COURSE:**
  - ME 350R: Robot Mechanism Design
- **ELECTIVES (6 hours allowed):**
  - ME 364L: Automatic Control System Design
  - ME 369P: Programming for Engineers
  - ME 379M: Theory & Design of Mechanical Measurement

### Sustainable Engineering
- ME 336P: Concepts in Nuclear & Radiation Engineering
- ME 378E: Nanotechnology for Sustainable Energy

Complete track lists can be found here: [https://www.me.utexas.edu/academics/undergraduate-program/degree-information/career-gateway-electives](https://www.me.utexas.edu/academics/undergraduate-program/degree-information/career-gateway-electives)