Fall 2024 Career Gateway Electives

**Energy Systems Engineering**
- ME 337C: Introduction to Nuclear Power Systems
- ME 343: Thermal Fluid Systems (Required Course)
- ME 378E: Nanotechnology for Sustainable Energy

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

**Advanced Materials Engineering**
- ME 336: Materials Processing (Required Course)
- ME 350: Machine Tool Operations for Engineers
- ME 378K: Mechanical Behavior of Materials (Required Course)

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

**Design & Manufacturing**
- ME 336: Materials Processing
- ME 350: Machine Tool Operations for Engineers
- ME 350R: Robot Mechanism Design
- ME 368C: Additive Manufacturing
- ME 371D: Medical Device Design & Manufacturing

**Dynamic, Vibrations, Acoustics & Controls**
- ME 350R: Robot Mechanism Design
- ME 364L: Automatic Control System Design
- ME 379N: Engineering Acoustics

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

**Biomedical & Biomechanical Engineering**
- ME 350R: Robot Mechanism Design
- 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 ROBOTICS COURSES:
  - ME 350R: Robot Mechanism Design
- REQUIRED MECHATRONICS COURSE:
  - NO COURSES OFFERED FOR FALL 2024

**ELECTIVES (6 hours allowed):**
- ME 364L: Automatic Control System Design
- ME 369P: Programming for Engineers

**Sustainable Engineering**
- ME 336P: Concepts in Nuclear & Radiation Engineering
- ME 337F: Nuclear Environmental Protection
- ME 378E: Nanotechnology for Sustainable Energy

**Updated 03/05/2024**

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