

## **Spring 2026 ME Career Gateway Electives**

### **Energy Systems Engineering**

- ME 363M: Energy Technology and Policy
- ME 374T/ME 397: Renewable Energy Technology
- ME 378E: Nanotechnology for Sustainable Energy

### **Nuclear & Radiation Engineering**

- ME 337G: Nuclear Safety & Security
- ME 361E: Nuclear Reactor Operations & Engineering

### **Advanced Materials Engineering**

- ME 349: Corrosion Engineering
- ME 350: Machine Tool Operations for Engineers
- ME 359: Materials Selection
- ME 378D: Failure Analysis

### **Automotive & Vehicle Systems Engineering**

- ME 355K: Engineering Vibrations
- ME 379M: Connected Autonomous Electric Vehicles

### **Design & Manufacturing**

- ME 350: Machine Tool Operations for Engineers
- ME 350R: Robot Mechanism Design
- ME 355K: Engineering Vibrations
- ME 359: Materials Selection
- \*\* ES 277: Humanitarian Product Design (2 semesters)
- \*\* ES 277K+L: Projects with Underserved Communities

### **Dynamic, Vibrations, Acoustics & Controls**

- ME 348F/ME 392Q.9: Advanced Mechatronics II
- ME 350R: Robot Mechanism Design
- ME 355K: Engineering Vibrations

~Updated 09/26/2025~

### **Industrial Engineering & Management**

- ME 365D: Data Science for Engineers
- ME 366L/ORI 366: Operations Research Models
- ME 367S/ORI 367: Simulation Modeling

### **Biomedical & Biomechanical Engineering**

- ME 350R: Robot Mechanism Design
- ME 379M: Tissue Microenvironments

### **Humanitarian Engineering**

- ME 363M: Energy Technology and Policy
- ME 374T/ME 397: Renewable Energy Technology
- ME 378E: Nanotechnology for Sustainable Energy
- \*\* ES 277: Humanitarian Product Design (2 semesters)
- \*\* ES 277K+L: Projects with Underserved Communities

### **Robotics & Mechatronics**

- **REQUIRED ROBOTICS COURSES:**
  - o ME 350R: Robot Mechanism Design
- **REQUIRED MECHATRONICS COURSE:**
  - o ME 348F/ME 392Q.9: Advanced Mechatronics II
- **ELECTIVES (max 6 hours allowed):**
  - o ME 355K: Engineering Vibrations
  - o ME 365D: Data Science for Engineers

### **Sustainable Engineering**

- ME 363M: Energy Technology and Policy
- ME 374T/ME 397: Renewable Energy Technology
- ME 378E: Nanotechnology for Sustainable Energy

### **Custom Track ONLY**

- ME 379M: Chemical Process Safety
- ME 379M: Nanophotonics/Mechanics Learning
- ME 379M: LGBTQ+ Experiences in ENGR

*\*\*Requires application and admission*