

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 374C/ME 382R.6: Combustion Engine Processes
- ME 379M: Connected Autonomous Electric Vehicles
- ME 379N: Engineering Acoustics

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
- ME 379N: Engineering Acoustics

~Updated 11/06/2025~

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

***Requires application and admission*