

Fall 2025 ME Career Gateway Electives

Energy Systems Engineering

- **REQUIRED: ME 343: Thermal Fluid Systems**
- ME 337C: Introduction to Nuclear Power Systems

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

- **REQUIRED: ME 336: Materials Processing**
- **REQUIRED: ME 378K: Mechanical Behavior of Materials**
- ME 350: Machine Tool Operations for Engineers

Automotive & Vehicle Systems Engineering

- ME 379N: Engineering Acoustics

Design & Manufacturing

- ME 336: Materials Processing
- ME 350: Machine Tool Operations for Engineers
- ME 368C: Additive Manufacturing
- ME 371D: Medical Device Design & Manufacturing
- ME 372C: Theory & Design of Mechanical Measurement
- ** ES 277: Humanitarian Product Design (2 semesters)
- ** ES 277K+L: Projects with Underserved Communities

Dynamic, Vibrations, Acoustics & Controls

- ME 348E/ME 392Q.6: Advanced Mechatronics I
- ME 364L: Automatic Control System Design
- ME 372C: Theory & Design of Mechanical Measurement

Industrial Engineering & Management

- 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 378F: Enhanc Sustnbly Thru Tribology
- ** ES 277: Humanitarian Product Design (2 semesters)
- ** ES 277K+L: Projects with Underserved Communities

Robotics & Mechatronics

- **REQUIRED **ROBOTICS** COURSES:**
 - **NO ROBOTICS COURSES OFFERED FALL 2025**
- **REQUIRED **MECHATRONICS** COURSE:**
 - ME 348E/ME 392Q.6: Advanced Mechatronics I
- **ELECTIVES (max 6 hours allowed):**
 - ME 364L: Automatic Control System Design
 - ME 369P: Application Programming for Engineers

Sustainable Engineering

- ME 336P – Concepts in Nuclear and Radiation Engineering
- ME 337F – Nuclear Environmental Protection
- ME 378F – Enhancing Sustainable Tribology

Custom Track ONLY

- ME 379M – Qualitative Research Methods in ENGR

~Updated 03/03/2025~

***Requires application and admission*