

## Mechanical Engineering Technical Electives

- MEE 330 (Manufacturing Engineering)\*
- MEE 430 (Digital Manufacturing)
- MEE 433 (Solar-Thermal Engineering)
- MEE 434 (Thermodynamic Design of Engines)
- MEE 441 (Manufacturing and Testing of Composites)
- MEE 444 (Robot Dynamics and Control)
- MEE 448 (Fixed Wing Aircraft Design)
- MEE 450 (Intro to Mechanics of Composite Materials)
- MEE 452 (Aircraft and Automobile Structures)
- MEE 453 (Experimental Mechanics)
- MEE 455 (Advanced Strength of Materials)
- MEE 459 (Engineering Optimization)
- MEE 462 (Fluid Mechanics II)
- MEE 463 (Applied Computational Fluid Dynamics)
- MEE 475 (Fuel Cell Science and Technology)
- MEE 480 (Wind Energy Engineering)
- MEE 483 (Turbomachine Design)
- MEE 484 (Power Plant Design and Engineering)
- MEE 486 (Refrigeration & Air Conditioning System Design)
- MEE 489 (Offshore Floating System Design)
- MEE 490 (Modern Control Theory & Applications)
- MEE 491 (Offshore Wind Farm Engineering)

400 level courses offered by other engineering programs may, with MEE Department approval, be used to satisfy the mechanical engineering technical elective requirement.

500 level courses in MEE or other engineering programs may, with instructor and MEE Department approval, be used to satisfy the mechanical engineering technical elective requirement.

\*Accepted as a technical elective for the students who began pursuing a BS degree in MEE prior to Fall 2019.

## Schedule of Technical Electives and Graduate-Level Courses

\*Courses listed as being offered during future semesters are subject to change\*

### Spring 2025

- MEE 444 — Robot Dynamics and Control
- MEE 452 — Aircraft & Automobile Structures
- MEE 498 — Mechanics of Polymeric Fluids
- MEE 550 — Mechanics of Laminated Composite Struct
- MEE 551 — Robot Dynamics and Control
- MEE 552 — Aircraft & Automobile Structures
- MEE 557 — Intro to Continuum Mechanics
- MEE 639 — Advanced Radiative Heat Transfer
- MEE 646 — Advanced Finite Elements in Solid Mechanics
- MEE 697 — Mechanics of Polymeric Fluids

### Summer 2025

- MEE 394 — Mechanical Engineering Practice
- MEE 441 — Manufacturing and Testing of Composites
- MEE 480 — Wind Energy Engineering
- MEE 541 — Manufacturing and Testing of Composites
- MEE 580 — Wind Energy Engineering
- MEE 522 — Advances in Materials I

## Fall 2025

- MEE 430 — Digital Manufacturing
- MEE 448 — Aircraft Design
- MEE 450 — Mechanics of Composite Materials
- MEE 459 — Engineering Optimization
- MEE 462 — Fluid Mechanics II
- MEE 477 — Introduction to Structural Dynamics
- MEE 486 — Refrigeration & Air Conditioning Systems
- MEE 490 — Modern Control Theory & Applications
- MEE 491 — Offshore Wind Farm Engineering
- MEE 549 — Numerical Methods in Engineering
- MEE 553 — Aircraft Design
- MEE 554 — Theory of Elasticity
- MEE 559 — Engineering Optimization
- MEE 564 — Fluid Structure Interaction
- MEE 577 — Introduction to Structural Dynamics
- MEE 590 — Modern Control Theory & Applications
- MEE 591 — Offshore Wind Farm Engineering