Schedule of Classes – Spring 2025 (updated 11/1/2024)

Applied Science and Technology

- Select any Mech Eng 200 level course offered in spring 2025

Advanced Energy Technology

- Mech Eng 235 (4 units) – Design of Microprocessor-Based Mechanical Systems
- Mech Eng 246 (3 units) – Advanced Energy Conversion Principles
- Mech Eng 250A (3 units) - Advanced Conductive and Radiative Transport
- Mech Eng 250B (3 units) - Advanced Convective Transport and Computational Methods

Aerospace Engineering

- Mech Eng 227 (3 units) – Mechanical Behavior of Composite Materials
- Mech Eng C231B / El Eng C220C (3 units)- Experiential Advanced Control Design II
- Mech Eng 260B (3 units) – Advanced Fluid Mechanics II
- Mech Eng 262 (3 units) – Hydrodynamic Stability and Instability (TENTATIVE)
- Mech Eng 263Z (3 units) – Engineering Aerodynamics
- Mech Eng 280B (3 units) – Finite Element Methods in Nonlinear Continua
- Mech Eng 287 (3 units) – Graduate Introduction to Continuum Mechanics
- Mech Eng 292I (3 units) – Flight Vehicle Structures and Aeroelasticity

BioMechanics
- Mech Eng C214 (3 units) – Advanced Tissue Mechanics
- Mech Eng C225 (4 units) – Deformation and Fracture of Engineering Materials

Control of Robotic and Autonomous Systems (Formerly Experimental Advanced Control Systems Design)
- Mech Eng C231B / El Eng C220C (3 units)- Experiential Advanced Control Design II
- Mech Eng 233 (3 units)- Advanced Control Systems II
- Mech Eng 235 (4 units) – Design of Microprocessor-Based Mechanical Systems
- Mech Eng 236C (4 units) – Vehicle Dynamics & Control
- Mech Eng 276DS – (4 units) – Statistics and Data Science for Engineers (NEW)

Fluids and Ocean
- Mech Eng 260B (3 units) – Advanced Fluid Mechanics II
- Mech Eng 262 (3 units) – Hydrodynamic Stability and Instability (TENTATIVE)
- Mech Eng 263Z (3 units) – Engineering Aerodynamics
- Mech Eng 292K (3 unit) – Advanced Special Topics in Ocean – "Mechanics of Offshore Systems"

MEMS/Nano
- Mech Eng 218N (3 units) - Introduction to Nanotechnology and Nanoscience
- Mech Eng C231B / El Eng C220C (3 units)- Experiential Advanced Control Design II
- Mech Eng 235 (4 units) – Design of Microprocessor-Based Mechanical Systems

Mechanics and Dynamics
- Mech Eng 221 (3 units) – Graduate Introduction to Lean Manufacturing Systems
- Mech Eng 227 (3 units) – Mechanical Behavior of Composite Materials
- Mech Eng 273 (3 units) - Oscillations in Linear Systems
- Mech Eng C279 (3 units) – Statistical Mechanics of Elasticity
- Mech Eng 280B (3 units) – Finite Element Methods in Nonlinear Continua

Modeling and Simulation of Advanced Manufacturing Processes
- Mech Eng 221 (3 units) – Graduate Introduction to Lean Manufacturing Systems
- Mech Eng C225 (4 units) – Deformation and Fracture of Engineering Materials
- Mech Eng 280B (3 units) – Finite Element Methods in Nonlinear Continua

Product Design
- Mech Eng 227 (3 units) – Mechanical Behavior of Composite Materials
- Mech Eng C231B / El Eng C220C (3 units)- Experiential Advanced Control Design II
- Mech Eng 292C (3 units) – Advanced Product Development
- Mech Eng 235 (4 units) – Design of Microprocessor-Based Mechanical Systems

Sports Engineering
- Mech Eng 227 (3 units) – Mechanical Behavior of Composite Materials
- Mech Eng C214 (3 units) – Advanced Tissue Mechanics
- Mech Eng C225 (4 units) – Deformation and Fracture of Engineering Materials
- Mech Eng 235 (4 units) – Design of Microprocessor-Based Mechanical Systems