Tentative Schedule of Classes (By Area of Concentration)
Spring 2024
Updated 10/4/2023

Advanced Energy Technology
• Mech Eng 235 (4 units) – Design of Microprocessor-Based Mechanical Systems
• Mech Eng 258 (3 units) – Heat Transfer with Phase Change
• Mech Eng 292E (2 units) – Advanced Special Topics in Energy Science & Technology

Aerospace Engineering
• Mech Eng 227 (3 units) – Mechanical Behavior of Composite Materials
• Mech Eng C231B / EE C220C(3 units) - Experiential Advanced Control Design II
• Mech Eng 260B (3 units) - Advanced Fluid Mechanics II
• Mech Eng 266 (3 units) – Geophysical and Astrophysical Fluid Dynamics

BioMechanics
• Mech Eng 227 (3 units) – Mechanical Behavior of Composite Materials
• Mech Eng 292C (3 units) - Advanced Product Development
Control of Robotic and Autonomous Systems (Formerly Experimental Advanced Control Systems Design)
- Mech Eng C231B / EE 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 C237/EECS C222 (3 units) – Nonlinear Systems
- Mech Eng 276DS (4 units) – Statistics and Data Science for Engineers

Fluids and Ocean
- Mech Eng 260B (3 units) – Advanced Fluid Mechanics II
- Mech Eng 266 (3 units) – Geophysical and Astrophysical Fluid Dynamics

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

Mechanics and Dynamics
- Mech Eng 224A (3 units) – Failure Analysis of Structural Material (online course)
- Mech Eng 282 (3 units) – Theory of Elasticity
- Mech Eng 289 (3 units) – Theory of Shells
Modeling and Simulation of Advanced Manufacturing Processes
• Mech Eng C201 (3 units) – Modeling and Simulation of Advanced Manufacturing Processes
• Mech Eng 227 (3 units) – Mechanical Behavior of Composite Materials
• Mech Eng 290D (3 units) – Solid Modeling and CAD/CAM Fundamentals

Product Design
• Mech Eng 227 (3 units) – Mechanical Behavior of Composite Materials
• Mech Eng 235 (4 units) – Design of Microprocessor-Based Mechanical Systems
• Mech Eng 290D (3 units) – Solid Modeling and CAD/CAM Fundamentals
• Mech Eng 292C (3 units) - Advanced Product Development