Tentative Schedule of Classes (By Area of Concentration)
Spring 2023
Updated 10/20/2022

Advanced Energy Technology
• Mech Eng 235 (4 units) – Design of Microprocessor-Based Mechanical Systems
• Mech Eng 250B (3 units) – Advanced Convective Transport and Computational Methods
• Mech Eng 255(3 units) – Advanced Combustion Processes
• Mech Eng 290G (3 units) – Laser Processing and Diagnostics

Aerospace Engineering
• (?)Mech Eng 227 (3 units) – Mechanical Behavior of Composite Materials
• Mech Eng C231B / EE C220C(3 units) - Advanced Control Systems II
• Mech Eng 255(3 units) – Advanced Combustion Processes
• Mech Eng 263 (3 units) - Turbulance
• Mech Eng 273 (3 units) – Oscillations in Linear Systems
• Mech Eng 284 (3 units)- Nonlinear Theory of Elasticity

BioMechanics
• Mech Eng C213 (3 units) – Fluid Mechanics of Biological Systems
• Mech Eng C215 (4 units) – Advanced Structural Aspects of Biomaterials
• Mech Eng C216 (4 units) – Molecular Biomechanics and Mechanobiology of the Cell
• Mech Eng 270 (4 units) – Advanced Augmentation of Human Dexterity
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 236C (4 units) – Vehicle Dynamics & Control (NEW)
- Mech Eng C237/EECS C222 (3 units) – Nonlinear Systems
- Mech Eng 292B – 001 (3 units) – Feedback Control of Legged Robots
- Mech Eng 292B – 002 (4 units) – Statistics and Data Science for Engineers

Fluids and Ocean

- Mech Eng C213 (3 units) – Fluid Mechanics of Biological Systems
- Mech Eng 260B (3 units) – Advanced Fluid Mechanics II
- Mech Eng 263 (3 units) – Turbulance

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 273 (3 units) – Oscillations in Linear Systems
- Mech Eng 284 (3 units) – Nonlinear Theory of Elasticity
Modeling and Simulation of Advanced Manufacturing Processes

- Mech Eng C201 (3 units) – Modeling and Simulation of Advanced Manufacturing Processes
- Mech Eng C225 / MSE C212 (3 units) - Deformation and Fracture of Engineering Materials
- (?) Mech Eng 227 (3 units) – Mechanical Behavior of Composite Materials
- Mech Eng 290G (3 units) – Laser Processing and Diagnostics

Product Design

- Mech Eng 235 (4 units) – Design of Microprocessor-Based Mechanical Systems
- Mech Eng 270 (4 units) – Advanced Augmentation of Human Dexterity

*If there are any changes to the spring 2023 schedule, this list will be updated.*