Tentative Schedule of Classes (By Area of Concentration)
Fall 2022

Advanced Energy Technology
• Mech Eng 249 (3 units) – Machine Learning Tools (Python)
• Mech Eng 250A (3 units) - Advanced Conductive and Radiative Transport
• Mech Eng 254 (3 units) - Thermodynamics

Aerospace Engineering
• Mech Eng 236U (3 units) – Control and Dynamics of Unmanned Aerial Vehicles
• Mech Eng 287 (3 units) – Introduction to Continuum Mechanics
• Mech Eng C231A / El Eng C220B (3 units) - Experiential Advanced Control Design I
• Mech Eng C232 / El Eng C220A (3 units) - Advanced Control Systems I

BioMechanics
• Mech Eng C210 (4 units) – Advanced Orthopedic Biomechanics
• Mech Eng 292C-001 (3 units) - Human-Centered Design Methods

Control of Robotic and Autonomous Systems (Formerly Experimental Advanced Control Systems Design)
• Mech Eng C231A / El Eng C220B (3 units) - Experiential Advanced Control Design I
• Mech Eng C232 / El Eng C220A (3 units) - Advanced Control Systems I
• Mech Eng 236 U (3 units) – Introduction to Control of Unmanned Aerial Vehicles
Fluids and Ocean
- Mech Eng 242 (3 units) – Mechanics of Offshore Systems
- Mech Eng 260A (3 units) – Advanced Fluid Mechanics
- Mech Eng 262 (3 units) – Hydrodynamic Stability and Instability
- Mech Eng 292K (3 units) – Special Topics in Ocean Engineering

MEMS/Nano
- Mech Eng 219 (3 units)- Introduction to Microelectromechanical Systems
- Mech Eng C231A / El Eng C220B (3 units)- Experiential Advanced Control Design I
- Mech Eng 280A (3 units) - Introduction to the Finite Element Method

Mechanics and Dynamics
- Mech Eng 271 (3 units) – Intermediate Dynamics
- Mech Eng 280A (3 units) - Introduction to the Finite Element Method
- Mech Eng 287 (3 units) – Graduate Introduction to Continuum Mechanics

Modeling and Simulation of Advanced Manufacturing Processes
- Mech Eng 226 (3 units)- Tribology
- Mech Eng C231A / El Eng C220B (3 units)- Experiential Advanced Control Design I
- Mech Eng 280A (3 units) - Introduction to the Finite Element Method (required)

Product Design
- Mech Eng C231A / El Eng C220B (3 units)- Experiential Advanced Control Design I
- Mech Eng 239 (4 units) – Advanced Design and Automation
- Mech Eng 292C (3 units) - Human-Centered Design Methods