


Tentative Schedule of Classes (By Area of Concentration)

Fall 2022

Updated 7/14/2022

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 206A/EECS C206A (4 units) – Introduction to Robotics (NEW) *206B not offered in S23
- 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
- Mech Eng 292B – 001 (4 units) – Linear System Theory (NEW) only 5 seats
- Mech Eng 292B – 002 (4 units) – Statistics and Data Science for Engineers (NEW)

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 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

Product Design

- Mech Eng C231A / El Eng C220B (3 units)- Experiential Advanced Control Design I
- **Mech Eng 226L (4 units) – Science and Engineering of Cooking (NEW)**
- Mech Eng 239 (4 units) – Robotic Locomotion
- Mech Eng 292C (3 units) - Human-Centered Design Methods