MECHANICAL ENGINEERING GRADUATE COURSES -   2024-25*

* These courses are subject to change throughout the year.

Fall 2024

BIOE 220A	**Molecular Bioengineering**	**Plaxco, Kevin**
ECE/ME 210A	**Matrix Analysis & Computation**	**Chandrasekaran, Shiv**
ECE 203/ME 243A	**Linear Systems I**	**Hespanha, Joao**
ECE 289	**Introduction to Robotics: Dynamics & Controls**	**Byl, Katie**
MATRL 207/ME 219	**Mechanics of Materials**	**Begley, Matthew**
ME 200	**Professional Seminar**	**TBD**
ME 210D/MATH 206D/CMPSC 211D/ ECE 210D/CHEM 211D	**Numerical Solutions of Partial Differential Equations – Finite Element Methods**	**Atzberger, Paul**
ME 211	**Pattern Formation 7 Self-Organization**	**Stowers, Ryan**
ME 215A	**Applied Dynamical Systems I**	**Mezic, Igor**
ME 220A	**Fundamental of Fluid Mechanics**	**Luzzatto-Fegiz, Paolo**
ME 225AS	**Special Topics: Multi Flow**	**Sauret, Alban**
ME 225TD	**Special Topics: Advanced Engineering Thermodynamics**	**Liao, Bolin**
ME 225YZ	**Special Topics: Intro to Interfacial**	**Zhu, Yangying**
ME 257	**Introduction to Multiphysics Simulation**	**Meinhart, Carl**
ME 292	**Design Transducers**	**Pennathur, Sumita**
ME 295	**Group Studies: Controls, Dynamical Systems, & Computation**	**Teel, Andrew**

Winter 2025

BIOE 220B	**Cellular Bioengineering**	**Stowers, Ryan**
BIOE 240	**Haptics: Touch Perception, Interaction, and Engineering**	**Visell, Yon**
ECE/ME 236	**Nonlinear Control Systems**	**Teel, Andrew**
MATRL 220/ME 264	**Mechanical Behavior of Materials**	**Zok, Frank**
MATRL/ME 232	**Plasticity**	**Beyerlein, Irene**
MATRL 240/ME 271	**Finite Element Structural Analysis**	**Begley, Matthew**
ME 203	**Operator Theory Methods in Dynamical Systems**	**Mezic, Igor**
ME 210B	**Numerical Simulation**	**Petzold, Linda**
ME 211	**Pattern Formation & Self-Organization**	**Kodio, Ousmane**
ME 220B	**Fundamentals of Fluid Mechanics**	**Bennett, Ted**
ME 225ED	**Special Topics: Bio-Design**	**Dressaire, Emilie**
ME 225EY	**Special Topics: Biological Computing**	**Yeung, Enoch**
ME 225FA	**Special Topics: Failure Analysis**	**Daly, Samantha**
ME 225FM	**Special Topics: Fluid Mechanics & Soft Matter in Additive Manufacturing**	**Sauret, Alban**
ME 225HT	**Special Topics: Advanced Heat Transfer**	**Zhu, Yangying**
ME 225NN	**Special Topics: Modeling & Optimization of Neural Networks**	**Bullo, Francesco**
ME 225RM	**Special Topics: Chemo-Mechanics**	**McMeeking, Robert**
ME 226	**Applied Numerical Methods**	**Gibou, Frederic**
ME 235	**Wind & Tidal**	**Luzzatto-Fegiz, Paolo**
ME 252A	**Computational Fluid Dynamics**	**Meiburg, Eckart**
ME 291A	**Physics Transducers**	**Valentine, Megan**
ME 295	**Group Studies: Controls, Dynamical Systems, & Computation**	**Teel, Andrew**

Spring 2025

BIOE/ME 241	**Radiative Energy Transfer**	**Stowers, Ryan**
BIO/BMSE/ME 258	**Methods in Mechanobiology & Biofabrication**	**Pruitt, Beth**
ECE 232/ME 256	**Robust Control Theory**	**Bassam, Bamieh**
MATRL 234/ME 275	**Fracture Mechanics**	**McMeeking, Robert**
ME 200	**Professional Seminar**	**TBD**
ME 201	**Advanced Dynamics**	**Mezic, Igor**
ME 210C/MATH 206C/CMPSC 211C/ECE 210C/CHEME 211C	**Numerical Solution of Partial Differential Equations – Finite Difference Methods**	**Ceniceros, Hector**
ME 221	**Advanced Viscous Flow**	**Dressaire, Emilie**
ME 225F	**Special Topics: Flow Instabilities & Turbulence**	**Sauret, Alban**
ME 225MB	**Special Topics: TBA**	**Begley, Matt**
ME 225MV	**Special Topics: Wicked Problems and Global Challenges**	**Valentine, Megan**
ME 225RA	**Special Topics: Radiative Energy Transfer**	**Bennett, Ted**
ME 280	**Crystalline Defects**	**Beyerlein, Irene**
ME 295	**Group Studies: Controls, Dynamical Systems, & Computation**	**Teel, Andrew**