

MECHANICAL ENGINEERING GRADUATE COURSES - 2025-26*

* These courses are subject to change throughout the year.

Fall 2025

BIOE 220A	Molecular Bioengineering	Stowers, Ryan
ECE/ME 210A	Matrix Analysis & Computation	Chandrasekaran, Shiv
ECE 230A/ME 243A	Linear Systems I	Bamieh, Bassam
MATRL 207/ME 219	Mechanics of Materials	Begley, Matthew
MATRL 261/ME 265	Composite Materials	Zok, Frank
ME 200	Professional Seminar	Kodio, Ousmane
ME 210D/MATH 206D/CMPSC 211D/ECE 210D/CHEM 211D	Numerical Solutions of Partial Differential Equations – Finite Element Methods	Atzberger, Paul
ME 215A	Applied Dynamical Systems I	Mezic, Igor
ME 220A	Fundamental of Fluid Mechanics	Luzzatto-Fegiz, Paolo
ME 225EH	Special Topics: Soft Robotics	Hawkes, Elliot
ME 225JS	Special Topics: Lithium-ion Batteries	Sakamoto, Jeff
ME 225OK	Special Topics: Soft Mechanics – Design & Application	Kodio, Ousmane
ME 225RA	Special Topics: Radiative Energy Transfer	Bennett, Ted
ME 225TD	Special Topics: Advanced Engineering Thermodynamics	Liao, Bolin
ME 225YZ	Special Topics: Intro to Interfacial Phenomena	Zhu, Yangying
ME 257	Introduction to Multiphysics Simulation	Meinhart, Carl
ME 291A	Physics of Transducers	Valentine, Megan
ME 295	Group Studies: Controls, Dynamical Systems, & Computation	Teel, Andrew

Winter 2026

BIOE 220B	Cellular Bioengineering	Stowers, Ryan
BIOE 240	Haptics: Touch Perception, Interaction, and Engineering	Visell, Yon
ECE 210B/ME 210B/CH E 211B/CMPSC 211B/ MATH 206B	Numerical Simulation	Petzold, Linda
ECE 226/CH E 226/CMPSC 216/ME 216	Level Set Methods	Gibou, Frederic
MATRL 220/ME 264	Mechanical Behavior of Materials	Gianola, Daniel
MATRL/ME 230	Elasticity & Plasticity	Beyerlein, Irene
MATRL 240/ME 271	Finite Element Structural Analysis	Begley, Matthew
ME 203	Operator Theory Methods in Dynamical Systems	Mezic, Igor
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 225FB	Special Topics: Contraction Theory for Dynamical Systems	Bullo, Francesco
ME 225HT	Special Topics: Advanced Heat Transfer	Zhu, Yangying
ME 225MC	Special Topics: MEMS Characterization	Valentine, Megan
ME 225RM	Special Topics: Chemo-Mechanics	McMeeking, Robert



ME 235	Wind & Tidal	Luzzatto-Fegiz, Paolo
ME 252A	Computational Fluid Dynamics	Meiburg, Eckart
ME 292	Design of Transducers	Pennathur, Sumita
ME 295	Group Studies: Controls, Dynamical Systems, & Computation	Teel, Andrew

Spring 2026

BIO/BMSE/ME 258	Methods in Mechanobiology & Biofabrication	Pruitt, Beth
MATRL 234/ME 275	Fracture Mechanics	McMeeking, Robert
MATRL 263/ME 267	Thin Films & Multilayers	Begley, Matthew
ME 200	Professional Seminar	TBD
ME 201	Advanced Dynamics	Mezic, Igor
ME 221	Advanced Viscous Flow	Dressaire, Emilie
ME 225MV	Special Topics: Wicked Problems and Global Challenges	Valentine, Megan
ME 225TT	Special Topics: Turbulent Transport	Bennett, Ted
ME 233	Renewable Energy Technologies	Liao, Bolin
ME 280	Crystalline Defects	Beyerlein, Irene
ME 295	Group Studies: Controls, Dynamical Systems, & Computation	Teel, Andrew