UC SANTA BARBARA mechanical engineering

MECHANICAL ENGINEERING GRADUATE COURSES - 2023-24*

* These courses are subject to change throughout the year.

Fall 2023

BIOE 220A	Molecular Bioengineering	Visell, Yon
ME 210A	Matrix Analysis & Computation	Chandrasekaran, Shiv
ME 210D	Numerical Solutions of Partial Differential Equations – Finite Element Methods	Atzberger, Paul
ME 215A	Applied Dynamical Systems I	Mezic, Igor
ME 219	Mechanics of Materials	Begley, Matthew
ME 220A	Fundamental of Fluid Mechanics	Luzzatto-Fegiz, Paolo
ME 225EH	Special Topics: Soft Robotics	Hawkes, Elliot
ME 225F	Special Topics: Flow Instabilities & Turbulence	Sauret, Alban
ME 243A	Linear Systems I	Bamieh, Bassam
ME 257	Introduction to Multiphysics Simulation	Meinhart, Carl
ME 265	Composite Materials	Zok, Frank
ME 291A	Physics of Transducers	Valentine, Megan
ME 295	Group Studies: Controls, Dynamical Systems, & Computation	Teel, Andrew

Winter 2024

BIOE 220B	Cellular Bioengineering	Stowers, Ryan
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 216	Level Set Methods	Gibou, Frederic
ME 220B	Fundamentals of Fluid Mechanics	Bennett, Ted
ME 225SD	Special Topics: Mechanics & Measurements	Daly, Samantha
ME 225ED	Special Topics: Bio-Inspired Design Fluid Mechanics	Dressaire, Emilie
ME 225EY	Special Topics: Biological Computing	Yeung, Enoch
ME 225HT	TBA	Zhu, Yangying
ME 225MV	TBA	Valentine, Megan
ME 225SA	TBA	Luzzatto-Fegiz, Paolo
ME 225RM	TBA	McMeeking, Robert
ME 230	Elasticity & Plasticity	Beyerlein, Irene
ME 236	Nonlinear Control Systems	Teel, Andrew
ME 252B	Computational Fluid Dynamics	Meiburg, Eckart
ME 264	Mechanical Behavior of Materials	Gianola, Daniel
ME 269	Network Systems: Dynamics & Controls	Bullo, Francesco
ME 271	Finite Element Structural Analysis	Begley, Matthew
ME 295	Group Studies: Controls, Dynamical Systems, & Computation	Teel, Andrew

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Spring 2024

ME 210C	**Numerical Solution of Partial Differential Equations – Finite Difference Methods**	**Ceniceros, Hector**
ME 221	**Advanced Viscous Flow**	**Dressaire, Emilie**
ME 225AS	**Special Topics: Introduction to Multiphase Flow**	**Sauret, Alban**
ME 225FB	**Nonlinear Networks: Dynamics, Learning, & Applications**	**Bullo, Francesco**
ME 225RA	**Special Topics: Radiative Energy Transfer**	**Bennett, Ted**
ME 235	**Wind & Tidal Energy**	**Luzzatto-Fegiz, Paolo**
ME 241	**Engineering Biomaterials**	**Stowers, Ryan**
ME 246	**Molecular & Cellular Biomechanics**	**Valentine, Megan**
ME 258	**Methods in Mechanobiology & Biofabrication**	**Pruitt, Beth**
ME 267	**Thin Films & Multilayers**	**Begley, Matthew**
ME 275	**Fracture Mechanics**	**McMeeking, Robert**
ME 280	**Crystalline Defects**	**Beyerlein, Irene**
ME 292	**Design of Transducers**	**Pennathur, Sumita**
ME 295	**Group Studies: Controls, Dynamical Systems, & Computation**	**Teel, Andrew**