

ME Undergraduate Department Electives 2023-2024

Fall 2023

MATRL 185/ME 185	Materials in Engineering	Beyerlein, Irene
BIOE 120A	Molecular Bioengineering	Visell, Yon
ECE/ME 179D	Introduction to Robotics: Dynamics & Control	Bly, Katie
ENGR 195A	Multidisciplinary Capstone Design	Susko, Tyler
ME 112	Energy	Matthys, Eric
ME 125TB	Special Topics in ME: Waves & Flow	Bennett, Ted
ME 128	Design of Biomedical Devices	Laguette, Stephen
ME 140A	Numerical Analysis in Engineering	Meiburg, Eckart
ME 154	Design & Analysis of Structures	McMeeking, Robert
ME 157	Introduction to Multiphysics Stimulation	Meinhart, Carl
ME 167	Structural Analysis	Yang, Henry
ME 179L	Introduction to Robotics: Design Laboratory	Marks, Trevor

Winter 2024

BIOE 120B	Cellular Bioengineering	Stowers, Ryan
ENGR 195B	Multidisciplinary Capstone Design	Susko, Tyler
ME 102	Finite Elements Analysis of Heat Transfer & Fluid Flow w/ COMSOL	Matthys, Eric
ME 125ED	Special Topics: Bio-Inspired Design in Fluid Mechanics	Dressaire, Emilie
ME 125EH	Special Topics: Soft Robotics	Hawkes, Elliot
ME 125KF	Special Topics: Design & Construction of Scientific Apparatus	Fields, Kirk
ME 125MV	TBA	Valentine, Megan
ME 125RM	TBA	McMeeking, Robert
ME 125SD	Special Topics: Mechanics & Measurements	Daly, Samantha
ME 127	Introduction to Mechanisms	Tsai, Geoff
ME 141A	Introduction to Nanoelectromechanical & Microelectromechanical Systems (NEMS/MEMS)	Pennathur, Sumita
ME 152B	Fluid Mechanics	Sauret, Alban
ME 158	Computer Aided Design & Manufacturing	TBD
ME 159 (Previously 125LP)	Introduction to Design Optimization	Meinhart, Carl Petzold, Linda
ME 163	Engineering Mechanics: Vibrations	Bamieh, Bassam

Spring 2024

ECE 147C/ME 155C	Control System Design Project	Hespanha, Joao
ECE 183/ME 169/PHYS 103	Nonlinear Phenomena	Mezic, Igor
ENGR 195C	Multidisciplinary Capstone Design	Susko, Tyler
ME 125AS	Special Topics: Introduction to Multiphase Flow	Alban, Sauret
ME 125BL	Special Topics: Radiative Transfer & Solar Energy	Liao, Bolin
ME 125RA	Special Topics: Radiative Energy Transfer	Bennett, Ted
ME 125RS	Special Topics: Engineering Biomaterials	Stowers, Ryan
ME 125YV	Special Topics: Vehicle Dynamics	Visell, Yon
ME 129	Manufacturing & Geometric Dimensioning & Tolerancing	Tsai, Geoff
ME 134	Advanced Thermal Science	Matthys, Eric
ME 135 (Previously 125PL)	Wind & Tidal Energy	Luzzatto-Fegiz, Paolo
ME 141B	MEMS: Processing & Device Characterization	Pennathur, Sumita
ME 146	Molecular & Cellular Biomechanics	Valentine, Megan
ME 151C	Thermosciences 3	Zhu, Yangying
ME 155A	Control System Design	Yeung, Enoch
ME 166	Advanced Strength of Materials	Daly, Samantha
ME W 167	Structural Analysis	Yang, Henry
ME 180 (Previously 125IB)	Crystalline Defects	Beyerlein, Irene

* These Electives may change frequently throughout the year.