

Fall 2021
Mechanical & Materials Engineering Elective and Grad Offerings
(subject to change)

400/800 Elective Courses

MATL 469/869 Physical Materials Science (Tech or Sr.)
MATL 471/871 Electron Microscopy of Materials (Tech or Sr.)
MECH 408/808 Heat Exchanger Design (Design, Tech or Sr.)
MECH 436/836 Intro to Continuum Biomechanics (Tech or Sr.)
MECH 442/842 Intermediate Kinematics (Design, Tech or Sr.)
MECH 450/850 Control System Design (Design, Tech or Sr.)
MECH 453/853 Robotics: Kinematics & Design (Tech or Sr.)
MECH 480/880 Numerical Methods (Tech or Sr.)
MECH 492/892 Sustainable Manufacturing (Tech or Sr.)
MECH 492/892 Nanoscale Heat Transfer (Tech or Sr.)
MECH 492/892 Intro to Cell Mechanics (Tech or Sr.)
MECH 492/892 Advanced Biomaterials (Tech or Sr.)

Grad Only

MATL 962 Imperfections in Crystals
MATL 972 Phase Transformations
MECH 801 Analytical Methods in Engineering I
MECH 810 Viscous Flow I
MECH 902 Optimal Control Theory
MECH 910 Continuum Mechanics
MECH 918 Fundamentals of Finite Elements
MECH 934 Theory of Elasticity II
MECH 950 Impact Engineering
MECH 970 Advanced Manufacturing Processes
MECH 996 Electrochemical Manufacturing

*For undergraduates using the 2019 or later catalog, if both MECH 343 and 300 are taken, one of these can fulfill the senior elective requirement.