

**Spring 2022**  
**Mechanical & Materials Engineering Elective and Grad Offerings**

(subject to change)  
(Design electives in **bold**)

400/800 Elective Courses

MATL 473/873 (T,S) Corrosion - Cui  
MATL 492/892 (T,S) Soft Materials - Tan  
MATL 492/892 (T,S) Intro to Quantum Materials - Laraoui  
**MECH 407/807 (D,T,S) Power Plant Systems Design** - Zhang  
MECH 416/816 (T,S) Engineering Acoustics - Moore  
**MECH 437/837 (D,T,S) Introduction to Biomedical Device Design** - Nelson  
MECH 449/849 (T,S) Advanced Dynamics - Grover  
MECH 451/851 (T,S) Intro to Finite Element Analysis - Bobaru  
**MECH 457/857 (D,T,S) Mechatronic Systems Design** – R. Yang  
MECH 472/872 (T,S) Additive Manufacturing - Rao  
MECH 475/875 (T,S) Introduction to Mechanical Vibrations - Turner  
**MECH 492/892 (D,S) Making for Innovation** – Farritor  
MECH 492/892 (T,S) Manufacturing Engineering I - Rajurkar  
MECH 492/892 (T,S) Biofabrication - Meng

Grad Only

MECH 812 Viscous Flow II - Park  
MECH 888 Nonlinear Optimization in Engineering - Bobaru  
MECH 923 Convection Heat Transfer - Zhang  
MECH 925 Manufacturing & Dynamic Systems Modeling – Rajurkar  
MECH 933 Theory of Elasticity I – J. Yang  
MECH 942 Theory of Plasticity - Negahban