MECH Electives & Grad Only Courses

All undergrad students MUST take one (T) Technical elective and one (D) Design elective. One additional elective must be taken that will count as the (S) Senior elective.

*A review of your electives should be discussed with your advisor prior to registration.

*Courses and instructors are subject to change without notice.

Spring 2023

MATL 4/892 (T, S) Soft Materials – Fernandez-Ballester
MATL 4/892 (T, S) Intro to Quantum Materials – Laraoui
MECH 4/808 (D, T, S) Heat Exchanger Design – Zhang
MECH 4/816 (T, S) Engineering Acoustics - Moore
MECH 4/837 (D, T, S) Biomedical Device Design – Nelson
MECH 4/849 (T, S) Advanced Dynamics - Grover
MECH 4/851 (T, S) Intro to Finite Element Analysis - Bobaru
MECH 4/892 (D, S) Making for Innovation – Farritor
MECH 4/892 (T, S) Manufacturing Engineering I – Rajurkar
MECH 4/892 (T, S) Intro Complex Fluids - Park
MECH 4/892 (T, S) Biofabrication - Meng

Fall 2023

MATL 4/869 (T, S) Physical Materials Science – Sutter
MATL 4/892 (T, S) Corrosion – Cui
MECH 4/807 (D, T, S) Power Plant Systems Design – Zhang
MECH 4/831 (T, S) Computational Heat Transfer&Fluid Flow - Nama
MECH 4/850 (D, T, S) Control System Design – Grover
MECH 4/853 (T, S) Robotics: Kinematics & Design – Markvicka
MECH 4/880 (T, S) Numerical Methods – Bobaru
MECH 4/892 (T,S) Sustainable Manufacturing – Williams
MECH 4/892 Nanoscale Heat Transfer - Ghashami
MECH 4/892 (T,S) Experim Mech of Composites – Dzenis
MECH 4/892 (T, S) Adv. Biomaterials - Lim

Grad ONLY

MECH 923 Convection Heat Transfer - Zhang
MECH 925 Manufacturing & Dynamic Systems Modeling – Rajurkar
MECH 933 Theory of Elasticity I – J. Yang
MECH 939 Viscoelasticity – Negahban
MECH 940 Fracture Mechanics - Bobaru

MECH 801 Analytical Methods I – Turner
MECH 810 Viscous Flow I – Ryu
MECH 910 Continuum Mechanics - Wang
MECH 918 Fundamental Finite Elements – Negahban
MECH 922 Conduction Heat Transfer – Gogos
MECH 924 Radiation Heat Transfer – TBA
MECH 950 Impact Engineering - TBA
MECH 970 Adv. Manufacturing Processes – Rajurkar
MECH 975 Advanced Vibrations - Moore