

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.

Fall 2024

MATL 4/862 (T, S) X-ray Diffraction - Shield
 MATL 4/869 (T, S) Physical Materials Systems – Sutter
 MATL 4/873 (T, S) Corrosion – Cui
 MECH 4/808 (D, T, S) Heat Exchanger Design - Zhang
 MECH 4/831 (T, S) Comp Heat Transfer & Fluid Flow – Nama
 MECH 4/839 (T, S) Biomaterial Surface Patterning - Lim
 MECH 4/853 (T, S) Robotics: Kinematics & Design – Markvicka
 MECH 4/872 (T, S) Additive Manufacturing - Guo
 MECH 4/880 (T, S) Numerical Methods – Bobaru

Spring 2025

MATL 4/871 (T, S) Electron Microscopy of Materials - Cui
 MATL 4/892 (T, S) Soft Materials – Fernandez-Ballester
 MATL 4/892 (T, S) Quantum Materials – Laraoui
 MECH 4/805 (T, S) Turbomachinery – Ryu
 MECH 4/807 (D, T, S) Power Plant Systems Design – Zhang
 MECH 4/836 (T, S) Intro to Continuum Biomechanics - Pedrigo
 MECH 4/849 (T, S) Advanced Dynamics – Baesu
 MECH 4/850 (D, T, S) Mech Eng Control Systems Design - Grover
 MECH 4/851 (T, S) Intro to Finite Element Analysis - Bobaru
 MECH 4/857 (D, T, S) Mechatronic Systems Design – TBD
 MECH 4/892 (D, S) Making for Innovation – Farritor

Grad ONLY

MATL 962 Imperfections in Crystals – Wang
 MECH 801 Analytical Methods I – Turner
 MECH 810 Viscous Flow I – Ryu
 MECH 910 Continuum Mechanics - Baesu
 MECH 918 Fundamental Finite Elements – Negahban
 MECH 934 Theory of Elasticity II – Baesu
 MECH 970 Adv. Manufacturing Processes - Rajurkar

Grad ONLY

MECH 933 Theory of Elasticity I – J. Yang
 MECH 939 Viscoelasticity - Negahban
 MECH 940 Fracture Mechanics - Bobaru