

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 2022

Fall 2021

MATL 4/869 (T, S) Physical Materials Science – Sutter
 MATL 4/871 (T, S) Electron Microscopy of Materials – Cui
 MECH 4/808 (D, T, S) Heat Exchanger Design - Zhang
 MECH 4/836 (T, S) Intro to Continuum Biomechanics – Pedrigo
 MECH 4/842 (D, T, S) Intermediate Kinematics - Farritor
 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 (T, S) Nanoscale Heat Transfer - Ghashami
 MECH 4/892 (T, S) MEMS/NEMS Fabrication&Microfluidics – Ndao
 MECH 4/892 (T, S) Intro to Cell Mechanics – Ryu
 MECH 4/892 (T, S) Advanced Biomaterials – Lim

MATL 4/892 (T, S) Soft Materials – Tan
 MATL 4/892 TBD – Laraoui
 MECH 4/805 (T, S) Turbomachinery – Ryu
 MECH 4/807 (D, T, S) Power Plant Systems Design – Zhang
 MECH 4/816 (T, S) Engineering Acoustics - Moore
 MECH 4/822 (T, S) Industrial Quality Control – Rao
 MECH 4/831 (T, S) Computational Heat Transfer&Fluid Flow - Gogos
 MECH 4/837 (D, T, S) Biomedical Device Design – Nelson
 MECH 4/849 (T, S) Advanced Dynamics - Baesu
 MECH 4/857 (D, T, S) Mechatronic Systems Design – R. Yang
 MECH 4/875 (T, S) Intro to Mechanical Vibrations - Turner
 MECH 4/892 (T, S) Experimental Mechanics of Composites - Dzenis
 MECH 4/892 (T, S) Additive Manufacturing – Sealy
 MECH 4/892 (D, S) Making for Innovation – Farritor
 MECH 4/892 TBD – Grover
 MECH 4/892 (T, S) Comparative Fluids – Park

Grad ONLY

MATL 962 Imperfections in Crystals – Wang
 MATL 972 Phase Transformations – Shield
 MECH 801 Analytical Methods I – Turner
 MECH 810 Viscous Flow I – Ryu
 MECH 902 Optimal Control Theory – Terry
 MECH 910 Continuum Mechanics - Baesu
 MECH 918 Fundamental Finite Elements – Negahban
 MECH 934 Theory of Elasticity II – Baesu
 MECH 970 Adv. Manufacturing Processes – Rajurkar
 MECH 996 Electrochemical Manufacturing - Tan

Grad ONLY

MATL 998 Advanced Electron Microscopy – Sutter
 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