**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 2022

- MATL 4/862 (T, S) X-ray Diffraction - Shield
- MATL 4/869 (T, S) Physical Materials Science – Sutter
- MATL 4/892 (T, S) Materials for Nuclear Engineering – Cui
- MECH 4/806 (D, T, S) A/C Systems Design – Zhang
- MECH 4/813 (T, S) Aerodynamics – Ryu
- MECH 4/831 (T, S) Computational Heat Transfer&Fluid Flow - Nama
- MECH 4/836 (T, S) Intro to Continuum Biomechanics – Pedrigi
- 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 4/870 (T, S) Theory&Practice -Materials Processing - Williams
- MECH 4/880 (T, S) Numerical Methods – Bobaru
- MECH 4/892 (T, S) Experimental Mechanics of Composites - Dzenis

### 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 – Baesu
- MECH 4/851 (T, S) Intro to Finite Element Analysis - Bobaru
- MECH 4/872 (T, S) Advanced Manufacturing – TBD
- MECH 4/875 (T, S) Intro to Mechanical Vibrations - Turner
- MECH 4/892 (T, S) Intro to Complex Fluids/Polymeric Liquids - Park
- MECH 4/892 (D, S) Making for Innovation – Farritor

### Grad ONLY

- MATL 962 Imperfections in Crystals – Wang
- MECH 801 Analytical Methods I – Baesu
- MECH 810 Viscous Flow I – Ryu
- MECH 910 Continuum Mechanics - Baesu
- MECH 918 Fundamental Finite Elements – Negahban
- MECH 975 Advanced Vibrations - Moore
- MECH 996 Functional Tissue Engineering - Lim

### Grad ONLY

- MATL 996 Advanced Electron Microscopy – Sutter
- MECH 924 Radiation Heat Transfer - TBD
- MECH 925 Manufacturing & Dynamic Systems Modeling – Rajurkar
- MECH 930 Mechanics of Composite Materials - Dzenis
- MECH 933 Theory of Elasticity I – J. Yang
- MECH 939 Viscoelasticity - Negahban
- MECH 940 Fracture Mechanics - Bobaru