

Technical Electives:

A technical elective should be an upper division engineering class that builds on fundamental mechanical engineering concepts and develops expertise for a professional career. Classes must be lecture based and two units minimum. Graduate classes are acceptable for qualified students with approval of the advisor. Students are encouraged to choose two classes that complement each other.

Classes:

MECH132	Fluid Mechanics II
MECH143/ELEN123	Mechatronics
MECH144	Smart Product Design
MECH145	Introduction to Aerospace
MECH146	Mechanism Design
MECH151	Finite Element Theory and Applications
MECH152	Composite Materials
MECH156/ELEN156	Introduction to Nanotechnology
MECH254/BIOE154	Introduction to Biomechanics
ELEN110	Linear Systems
ELEN115	Electronic Circuits I
ELEN160	Chaos Theory
CENG123	Environmental Reaction Engineering
CENG132	Structural Analysis

Mathematics and Science Electives:

A math/science elective is intended to fill out a student's knowledge in an area of their interest. The course should be at a level appropriate for science and engineering students. Students are encouraged to choose a course which may support their engineering classes.

Classes:

MATH53	Linear Algebra
MATH102	Advanced Calculus
MATH105	Theory of Functions of a Complex Variable
MATH144	Partial Differential Equations
MATH155	Ordinary Differential Equations
AMTH108	Probability and Statistics
MECH102	Introduction to Mathematical Methods in Mechanical Engineering
CHEM12	General Chemistry II
BIO21	Introduction to Physiology
PHYS34	Physics for Scientists and Engineers IV
PHYS101	Analytical Mechanics I
PHYS102	Analytical Mechanics II
CENG20	Geology