ELECTRICAL ENGINEERING ELECTIVE LIST

Electrical Engineering Elective: Choose 5 courses, 15 credit hours.
Any non-required ECE 300-level or above, except ECE 32600 or ECE 32700. Students wishing to take a 500-level course must meet with an academic advisor for permission to register for the course.

General Education Elective: See the separate list provided by ECE Department

Math/Science/Technical Elective: Choose 3 credit hours from the list of Math/Science Electives or the list of Technical Electives.

Math/Science Elective
MATH 33300: Chaotic Dynamical Systems
MATH 35100: Elementary Linear Algebra
MATH 51000: Vector Calculus
MATH 51100: Linear Algebra with Applications
MATH 52300: Introduction to Partial Diff. Eqn.
MATH 52600: Principles of Mathematical Modeling
MATH 52800: Advanced Math. Eng. & Physics II
MATH 53000: Functions of a Complex Variable I
MATH 53100: Functions of a Complex Variable II
MATH 54400: Real Analysis and Measure Theory
BIOL K10100: Concepts of Biology I
BIOL K10300: Concepts of Biology II
CHEM C10600: Principles of Chemistry II
CHEM C31000: Analytical Chemistry
CHEM C34100: Organic Chemistry
CHEM C36000: Elementary Physical Chemistry
CHEM C36100: Phys. Chemistry of Bulk Matter
CHEM C36200: Phys. Chemistry of Molecules
PHYS 31000: Intermediate Mechanics
PHYS 34200: Modern Physics
PHYS 40000: Physical Optics
PHYS 40000: Quantum Mechanics
PHYS 52900: Mathematical Physics
PHYS 53000: Electricity & Magnetism
PHYS 54500: Solid State Physics
PHYS 55000: Introduction to Quantum Mechanics

Any 300-level or above math/science course with prior written approval of students’ advisory committee

Technical Elective
Any non-required course from lists of Electrical Engineering Elective or Computer Engineering Elective,
Students completing three or more 1-credit sessions of either
1. ECE C199, ECE C299, ECE C399, ECE C494, or ECE C499,
2. ECE I199, ECE I299, ECE I399, ECE I494, or ECE I499,
may use these credits to satisfy the technical elective requirement.

ECE 32600: Engineering Project Management
ME 20000: Thermodynamics I
ME 27200: Mechanics of Materials
ME 30100: Thermodynamics II
CSCI 43700: Introduction to Computer Graphics
ME 27000: Basic Mechanics I
ME 27400: Basic Mechanics II
ME 34400: Introduction to Engineering Material

Restricted Elective: Choose 3 credit hours from any aforementioned elective lists.

(effective Fall 2009)