Out of Department Courses Accepted by ECE at CSU

4/22/24

This list can be updated and students can ask about courses not on this list, by emailing the department’s Graduate Advisor. Courses on the list indicate approval by ECE’s Graduate Committee and Department Head.

BIOM533 Biomolecular Tools for Engineers
CM506 Protein Basics for non-biologists

Computer Science courses, CS prefix- 400 level and 500 level and 600 level are accepted.

GRAD510 Fundamentals of High-Performance Computing
GRAD530 Introduction to Graduate Research
GRAD544 Ethical Conduct of Research
GRAD550 Stem Communication
GRAD575 Ethical Issues in Big Data Research

MATH550 (but note: credit not allowed for both ENGR550 and MATH550) – Numerical Methods in Science & Engineering
MATH569 series Linear Algebra

MECH502 Advanced/Additive Manufacturing Engineering
MECH513 Simulation Modeling & Experimentation
MECH518 Orbital Mechanics
MECH524 Principles of Dynamics
MECH529 Advanced Mechanical Systems
MECH531 Materials Engineering
MECH564 Fundamentals of Robot Mechanics & Controls
MECH570 Bioengineering
MECH575 Solar and Alternative Energies
MECH630 Biological Inspired Robotics

NSCI575 Ethical Issues in Big Data

STAA561 Probability with Applications

SYSE501 /ENGR501 Foundations of Systems Engineering - only counts for ME students
ENGR510 Engineering Optimization: Method/Application
ENGR520 Engineering Decision Support/Expert Systems
ENGR525 Intellectual Property and Invention
ENGR531 Engineering Risk Analysis
ENGR533 Spaceflight and Biological Systems
ENGR570 Coupled Electromechanical Systems
ENGR665 Stochastic Simulation
SYSE530 Overview of Systems Engineering Processes
SYSE/ENGR532 Dynamics of Complex Engineering Systems
SYSE541 Engineering Data Design and Visualization
SYSE549 Secure Vehicle and Industrial Networking
SYSE567 Systems Engineering Architecture
SYSE/ENGR569 Cybersecurity Awareness for Systems Engineers
SYSE571 Analytics in Systems Engineering
SYSE573 Cost Optimization for Systems Engineers
SYSE711 Ethics in Systems Engineering