

Area Courses Controls

Fundamental Courses

EE 482 Linear Control Systems -or-
AME 451 Linear Control Systems I

EE 543aL Digital Control Systems

EE 482

EE 585 Linear System Theory

EE 510

Mathematical Foundations

EE 503 Probability for Electrical and
 Computer Engineers

EE 510 Linear Algebra for Engineering

EE 512 Stochastic Processes

EE 503, EE 510

ISE 520 Optimization Theory and
 Algorithms: Numerical Optimization

EE 562 Random Processes in
 Engineering

EE 503, EE 510

Robust Multivariable and Nonlinear Control

EE 587 Nonlinear and Adaptive Control

EE 482, EE 585

EE 593 Multivariable Control

EE 482, EE 585

Network Control and Optimization

EE 553 Computational Solution of
 Optimization Problems

EE 510

EE 588 Optimization for the Information
 and Data Sciences

EE 510

EE 503

EE 649 Stochastic Network
 Optimization

EE 503

Cyber-Physical and Complex Systems

EE 520 Introduction to Quantum
 Information Processing

EE 503, EE 510

EE 527 Net-Centric Power-System
 Control

EE 482

EE 521

EE 539 Engineering Quantum
 Mechanics

EE 521

EE 652 Low-Power Wireless Networks

CSCI 402

EE 450

Financial Engineering

EE 518 Mathematics and Tools for
 Financial Engineering

EE 556 Stochastic Systems

EE 512

EE 503

ISE 563 Financial Engineering

Legend

Grouping

EE 000 Course Title

Prerequisite Courses

Recommended Prep.

Corequisite Courses

This chart shows course relationships

Please check the University Catalogue for specific course details including any recommended preparatory courses and Degree Requirements