

# Electrical Engineering Course List

## Core Courses: Electrical Engineering

- 628 Fiber Optic Communication Systems
- 713 High-Speed Digital Circuit Design
- 723 Microwave Engineering
- 728 Fiber-optic measurement and sensors
- 744 Communications and Radar Digital Signal Processing
- 769 Information Theory
- 786 Digital VLSI
- 820 Advanced Electromagnetics
- 861 Random Signals and Noise
- 863 Network Analysis, Simulation, and Measurements

## Elective Courses: Electrical Engineering

- 611 Electromagnetic Compatibility
- 622 Microwave & Radio Communication Systems
- 649 Intro Artificial Intelligence
- 664 Intro Digital Communication Systems
- 670 Semiconductor Processing
- 721 Antennas
- 725 Introduction to Radar Systems
- 738 Machine Learning
- 740 Digital Image Processing
- 743 Advanced Computer Architecture
- 745 Implementation of Networks
- 780 Communication Networks
- 781 Numerical Analysis I
- 782 Numerical Analysis II
- 784 Science of Communication Networks
- 788 Analog Integrated Circuit Design
- 823 Microwave Remote Sensing
- 828 Advanced Fiber-Optic Communications
- 844 Adaptive Signal Processing
- 862 Principles of Digital Communication Systems
- 865 Wireless Communication Systems
- 868 Mathematical Optimization with Applications
- 869 Error Control Coding
- 882 Mobile Wireless Networking
- 888 Internet Routing Architectures
- 965 Detection and Estimation Theory
- 983 Resilient and Survivable Networking

