ELECTRICAL ENGINEERING

ABOUT THE MINOR

A minor in electrical engineering is particularly designed for majors in math, science, computer science, or other engineering departments who would like a coherent background in the theory and laboratory practice of electrical engineering.

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Complete a total of four courses for the minor:

Required Core Course: (1)

EECE 2150  Circuits and Signals: Biomedical Applications
& EECE 2151  Lab for 2150

OR

EECE 2210  Electrical Engineering
& EECE 2211  Electrical Engineering Lab

Required fundamental course: (a maximum of 2 may be taken)

EECE 2412  Fundamentals of Electronics
& EECE 2413  Lab for EECE 2412

EECE 2520  Fundamentals of Linear Systems

EECE 2530  Fundamentals of Electromagnetics
& EECE 2531  Lab for EECE 2530

Required technical elective: (a minimum of 1 must be taken)

Electronic Circuits and Devices
EECE 4524  VLSI Design and EECE 4525  VLSI Design Lab
EECE 4574  Wireless Communications Circuits
EECE 4576  Wireless Personal Communication Systems
EECE 4604  Semiconductor Device Theory
EECE 5606  Integrated Circuit Fabrication
EECE 5684  Power Electronics
Fields, Waves, and Optics
EECE 4642 Antennas
EECE 4644 Microwave Circuits and Networks
EECE 4646 Optics
EECE 5680 Electric Drives
EECE 5682 Power Systems Analysis and EECE 5683 Power Systems Lab
EECE 5686 Electrical Machines
EECE 4692 Subsurface Sensing and Imaging

Signals and Systems
EECE 3468 Noise and Stochastic Processes
EECE 4572 Communications Systems I
EECE 4574 Wireless Communications Circuits
EECE 5576 Wireless Personal Communication Systems
EECE 5580 Control Systems and EECE 5581 Control Systems Lab
EECE 5666 Digital Signal Processing and EECE 5667 DSP Lab

Notes:
- Minor is awarded to students completing the requirements and earning a minimum QPA of 2.0 in the minor coursework.
- Students outside COE and CS may have to take non-EECE pre-requisite courses to gain entry into specified courses.
- No credit will be given for elective courses that have substantial overlap with courses the student has taken as part of the major.
- Students must fill out a program of study petition in 404 Dana before registering for courses.
- The minor is not open to students in the electrical and computer engineering department due to the overlap with the majors.