Courses

EET 2240 Introduction to Electrical Circuits: 3 semester hours.

EET 2274 Introduction to Digital Systems: 3 semester hours.
Number systems, Boolean algebra fundamentals, system reduction, design and analysis of combinational and sequential logic circuits. PRE-or-COREQ: EET 2275. F

EET 2275 Introduction to Digital Systems Laboratory: 1 semester hour.
Number systems, Boolean algebra fundamentals, system reduction, design and analysis of combinational and sequential logic circuits. PRE-or-COREQ: EET 2274. F

EET 3329 Introduction to Electronics: 3 semester hours.
Introduction to semiconductor materials and device theory. Diodes, bipolar junction transistors and metal-oxide-semiconductor field effect transistors. Amplifiers and frequency response. PRE-or-COREQ: EET 3340. S

EET 3340 Fundamentals of Electrical Devices: 3 semester hours.

EET 3342 Fundamentals of Electrical Devices Laboratory: 1 semester hour.
Laboratory experience emphasizing basic electrical measurements and methods. CO-or-PREREQ: EET 3340. S

EET 3345 Signals and Systems: 3 semester hours.
Linear time-invariant systems, continuous and discrete. Fourier series, Fourier transforms, Laplace transforms, z-transforms; state-space analysis, discrete Fourier transforms and the FFT. PREREQ: EET 3340. PRE-or-COREQ: MATH 3360. F

EET 4400 Senior Seminar: 1 semester hour.
Current topics in Electrical Engineering Technology. Selection of senior design projects. PREREQ: Permission of instructor. F

EET 4418 Communication Systems: 3 semester hours.
Basic analysis and design principles for modern analog and digital communication systems. PREREQ: EET 3329 and EET 3345. S

EET 4426 Computer Architecture and Organization: 3 semester hours.

EET 4427 Embedded Systems Engineering: 2 semester hours.
Design of real-time and embedded systems for signal processing and control through integration of algorithms, software and hardware. PREREQ: EET 4426 or CS 1337. PRE-or-COREQ: EET 4427L. S

EET 4427L Embedded Systems Laboratory: 1 semester hour.
Laboratory experience in design and implementation of embedded signal processing and control systems through the integration of algorithms, software and hardware. PRE-or-COREQ: EET 4427. S

EET 4429 Advanced Electronics: 3 semester hours.
Introduction to operational amplifiers and their applications, current mirrors, active loads, differential amplifiers, filters, oscillators, Schmitt triggers, power amplifiers and voltage regulators. Feedback and stability. PREREQ: EET 3329. F