EET 3101. Lab for EET 3100. 2 Hours.
Accompanies EET 3100. Covers topics from the course through various experiments.

EET 3200. Circuits 1. 3 Hours.
Covers the design and analysis of practical DC circuits. Topics include basic concepts; resistors; capacitors; inductors; series and parallel circuits; theorems of Norton and Thevenin; Ohm’s law; Kirchhoff’s laws; loop; nodal and mesh analysis; amplifiers; transient analysis of RL, RC, and RLC circuits; power and energy; transformers; power sources; relays; switches; and SPICE simulation.

EET 3201. Lab for EET 3200. 2 Hours.
Accompanies EET 3200. Covers topics from the course through various experiments.

EET 3300. Digital Logic. 3 Hours.
Covers the design, analysis, and simulation of digital circuits. Topics include number systems, Boolean algebra, logic gates, combinational logic, circuit simplification, multiplexers, demultiplexers, encoders, decoders, latches, flip-flops, registers, counters, synchronous sequential circuits, and read-only (ROM) and random-access memory (RAM). Includes digital logic circuitry based on RTL, TTL, ECL, and CMOS logic families and the simulation of digital circuits using a hardware description language.

EET 3301. Lab for EET 3300. 2 Hours.
Accompanies EET 3300. Covers topics from the course through various experiments.

EET 3400. Digital Electronics. 3 Hours.
Covers concepts needed to implement digital circuits. Topics include digital logic circuitry based on RTL, TTL, ECL, and CMOS logic families; semiconductor, magnetic, and optical memory; read-only memory (ROM); random-access memory (RAM); programmable logic arrays (PLAs); programmable logic; the simulation of digital circuits using a hardware description language; and tools for electronic design automation.

EET 3401. Lab for EET 3400. 2 Hours.
Accompanies EET 3400. Covers topics from the course through various experiments.

EET 3750. Linear Systems. 3 Hours.
Covers the basic theory of continuous and discrete systems, emphasizing linear time-invariant systems. Considers the representation of signals and systems in both the time and frequency domain. Topics include linearity, time invariance, causality, stability, convolution, system interconnection, sinusoidal response, and the Fourier and Laplace transforms for the discussion of frequency-domain applications. Analyzes sampling and quantization of continuous waveforms (A/D and D/A conversion), leading to the discussion of discrete-time FIR and IIR systems, recursive analysis, and realization. The Z-transform and the discrete-time Fourier transform are developed and applied to the analysis of discrete-time signals and systems.

EET 3800. Control Systems. 3 Hours.
Covers the analysis of feedback control systems under both transient and steady-state conditions. Topics include the application of Laplace transforms in the formulation of block diagrams and transfer functions in control systems modeling; the performance characteristics of feedback control systems; and the analysis of the stability of feedback control systems using Routh-Hurwitz criterion. Uses frequency plots and measurement techniques to evaluate steady-state responses.

EET 3990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.
EET 4950. Seminar. 1-4 Hours.
Offers an in-depth study of selected topics.

EET 4955. Project. 1-4 Hours.
Focuses on in-depth project in which a student conducts research or produces a product related to the student's major field. May be repeated without limit.

EET 4983. Topics. 1-4 Hours.
Covers special topics in electrical engineering technology. May be repeated without limit.

EET 4990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

EET 4991. Research. 1-4 Hours.
Offers students an opportunity to conduct research under faculty supervision.

EET 4992. Directed Study. 1-4 Hours.
Offers independent work under the direction of members of the department on a chosen topic.

EET 4993. Independent Study. 1-4 Hours.
Offers independent work under the direction of members of the department on a chosen topic.

EET 4994. Internship. 1-4 Hours.
Provides students with an opportunity for internship work.

EET 4995. Practicum. 1-4 Hours.
Provides eligible students with an opportunity for practical experience.

EET 4996. Experiential Education Directed Study. 1-4 Hours.
Draws upon the student's approved experiential activity and integrates it with study in the academic major.