EET 1990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

EET 2000. 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 Thevinin; 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.

Accompanies EET 2000. Covers topics from the course through various experiments.

EET 2005. Circuits AC/DC. 3 Hours.
Covers the design and analysis of practical DC and AC circuits. DC-related topics include basic concepts; resistors; capacitors; inductors; series and parallel circuits; theorems of Norton and Thevinin; 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. AC topics include network theorems; phasors; equivalent circuits; sinusoidal sources; steady-state analysis; steady-state power; impedance; admittance and frequency response; resonance; Bode plots; filters; power transfer; average, reactive, and complex power; and SPICE simulation.

EET 2006. Lab for EET 2005. 2 Hours.
Accompanies EET 2005. Applies a range of topics from the course.

EET 2100. Circuits 2. 3 Hours.
Covers the design and analysis of practical AC circuits. Topics include network theorems; phasors; equivalent circuits; sinusoidal sources; steady-state analysis; steady-state power; impedance; admittance and frequency response; resonance; Bode plots; filters; power transfer; average, reactive, and complex power; and SPICE simulation.

EET 2101. Lab for EET 2100. 2 Hours.
Accompanies EET 2100. Covers topics from the course through various experiments.

EET 2990. Elective. 1-4 Hours.
Offers elective credit for courses taken at other academic institutions. May be repeated without limit.

EET 3100. Electronics 1. 3 Hours.
Covers advanced analog devices and circuits and their uses. Topics include operational amplifiers, power transistors, timers, linear voltage regulators, switching regulators, sensors, advanced op amp circuits, active filters, oscillator circuitry, function generator, comparators, and timer circuitry. SPICE is used to simulate circuits, and data sheet analysis is included.

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

EET 3200. Electronics 2. 3 Hours.
Covers concepts needed to implement 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).

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).

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.