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The upper-division core in electrical engineering includes: fundamentals of circuits (3 semester credit hours), controls (3 semester credit hours), electromagnetics (3 semester credit hours), electronics (6 semester credit hours), electronic devices (3 semester credit hours), and probability and random processes (3 semester credit hours). Many of these fundamental courses include the use of ...

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Students are expected to make up any deficiencies in their electrical engineering background prior to beginning their graduate program. Fundamental courses required of all non-EE degree holders. EE 215 Fundamentals of Electrical Engineering; EE 233 Circuit Theory; EE 235 Continuous Time Linear Systems

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6.630 Electromagnetics. Prereq: Physics II (GIR) and 6.003 G (Fall) 4-0-8 units. Explores electromagnetic phenomena in modern applications, including wireless and optical communications, circuits, computer interconnects and peripherals, microwave communications and radar, antennas, sensors, micro-electromechanical systems, and power generation and transmission. Fundamentals include quasistatic ...

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[Microwave Engineering: Pozar, David M.: 9780470631553 ...](#)

Courses include topics such as electromagnetics, engineering design, digital logic design and electronic circuits; after graduation, students should be prepared for careers in various industries that require the design and use of engineering devices and systems. Students who lack certain prerequisite classes - typically lower-division lab courses - may be required to take them on campus before ...