

Electrical Engineering (EE)

EE 160: Programming for Engineers

Introductory course on computer programming and modern computing environments in C with an emphasis on algorithm and program design, implementation, and debugging. Includes a hands-on laboratory to develop and practice programming skills.

Credits: 4

Prerequisites: MATH 241 with a grade of C or better or concurrent enrollment.

EE 211: Basic Circuit Analysis I

Linear passive circuits, time domain analysis, transient and steady-state responses, phasors, impedance and admittance, power and energy, frequency responses, resonance.

Credits: 4

Prerequisites: PHYS 272 with a grade of C or better or concurrent registration and MATH 243 with a grade of C or better or concurrent registration.

EE 213: Basic Circuit Analysis II

Laplace transforms and their application to circuits, Fourier transforms and their applications to circuits, frequency selective circuits, introduction to and design of active filters, convolution, and state space analysis of circuits.

Credits: 4

Prerequisites: EE 211 with a grade of C or better and MATH 244 with a grade of C or better or concurrent registration.

EE 260: Introduction to Digital Design

Introduction to the design of digital systems with an emphasis on design methods and the implementation and use of fundamental digital components.

Credits: 4

Prerequisites: EE 160 or ICS 111 with a grade of C or better

EE 296: Sophomore Project

Sophomore level individual or team project under Electrical Engineering or Computer Engineering faculty direction and guidance. The project provides design experience and develops practical skills.

Credits: 1

Prerequisites: EE 211 with a grade of C or better.