

ELECTRICAL ENGINEERING (EELE)

EELE 201 - Circuits I for Engineering. 4 Credits.

Prereq., PHSX 217N and EGEN 101. Introduction to circuit analysis; Ohm's and Kirchhoff's Laws; resistors, capacitors, inductors, dependent sources, ideal op-amps; the complete response of first order circuits; complex frequency and phasors; steady-state AC circuits, coupled inductors and ideal transformers.

EELE 203 - Circuits II for Engineers. 4 Credits.

Prereq., EELE 201; Coreq., M 274. Natural and forced response of R-L-C circuits, frequency response of R-L-C circuits and Bode plots, frequency response, slew-rate and DC imperfections of real op-amps; Laplace Transform, Fourier series and Fourier Transform techniques in circuit analysis; basic R-L-C and op-amp filters; two port networks.

EELE 292 - Independent Study. 1-6 Credits.

(R-6) Offered every term. Prereq., consent of instr. Course material appropriate to the needs and objectives of the individual student.