

ENE-39 — ENGINEERING CIRCUIT ANALYSIS

About This Course

Transfer: UC, CSU

C-ID: (C-ID:ENGR 260; ENGR 260L)

4.00 units

Prerequisite: PHY-4B.

Corequisite: MAT-2.

Description: An introduction to the analysis of electrical circuits. Use of analytical techniques based on the application of circuit laws and network theorems. Analysis of DC and AC circuits containing resistors, capacitors, inductors, dependent sources, operational amplifiers, and/or switches. Natural and forced responses of first and second order RLC circuits; the use of phasors; AC power calculations; power transfer; and energy concepts. 54 hours lecture and 54 hours laboratory. (Letter grade only)