

University of Central Florida  
School of Electrical Engineering and Computer Science

EEL 3041 Circuit Analysis

**Instructor** : Moataz Abdelwahab

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**Text Book** : Introductory Circuit Analysis, 10<sup>th</sup> Edition by Robert L. Boylestad

**Class Hours** : MWF 15:30-16:20

**Office Hours**: MW 13:30-15:30

**Course Description** : This course develops an understanding of electrical circuits. Circuit analysis techniques are presented including DC and steady state analysis. Power calculation, power distribution and dissipation are covered with examples relating to cables, connections and buses.

**Topics**

- 1) Introduction
- 2) Current, Voltage, and resistance
- 3) Ohm's Law, Power and Energy
- 4) Series and parallel circuits
- 5) D.C Analysis
- 6) Network theorem
- 7) Capacitors and inductors
- 8) AC
- 9) Phasors
- 10) Series and Parallel AC circuits
- 11) AC circuits analysis and network theorem
- 12) Power
- 13) 3-phase circuits
- 14) transformers

**Grading** : Homeworks : 20% , 2-Mid Term Tests : 20% each and Final 40%

**Late Homework will not be accepted. Test dates will be announced two weeks ahead.**

**No make-up tests will be allowed**