Engr 5A (ECE)

Class: 1260 Phelps, Wednsday 2:00-2:50

Organization: Lectures, Weekly Homework, Quizes

Answer Keys scanned into web pages.

Teacher: Forrest Brewer (x8043) 4159 EngrI

TA: Anna Tauke (atauke@yahoo.com)

Class Materials: Class Notes (PDF) on Web (updated periodically)

http://www.bears.ece.ucsb/class/eng5a/engr5a.html

Facilities: ECI Cad Lab: Mathematica, MATLAB, MAPLE etc.

Students are encouraged to use computer techniques for problem solutions-- Some problems may require use of computer hosted tools. Students can make use of CADLAB tools or use student copies on their own PC's.

Format: Course is intended to supplement Ma5a content

Syllabus:

Complex Variables, Functions and Techniques
Review of First Order Differential Equations
Second Order Linear Equations
Second Order w. Constant Coefficients
--RLC Circuits and Resonance
Linear Algebra -- Determinants and Linear Independence
--Passive Circuit Graphs and Matrix Form
Linear Algebra -- Eigenvalues, Eigenvectors
Systems of Linear Differential Equations
--Coupled Resonance