

ELEG 3903  
Circuits and Machines

Text Book: Foundations of Electric Circuits  
J. R. Cogdell  
Pearson Prentice Hall 1999  
ISBN: 0-13-907742-1

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Office Hours: 1:00 – 3:00 pm ..... (Spring 2007)

Homework assignments are to be solved individually by the student. Copying of HW solutions from other sources for these assignments is strictly forbidden. HW is due in one week from the time of assignment.

There will be pop quiz problems to be solved and turned in almost every week. Please come prepared in the class. Please bring your calculator, pen/pencil, paper, and your textbook to every class.

Attendance in the classes is mandatory. Five percent of the final grade depends on attendance.

There will be three exams during the semester at an interval of approximately 5 weeks. In these exams you will be responsible for the subject matter taught during that 5-week period.

**Grading Policy:**

A: 90-100; B: 80-90; C: 70-80; D: 60-70; F: below 60

**Grade Breakdown:**

Homework:	15%
Quiz:	5%
Attendance:	5%
Exam I	25%
Exam II	25%
Exam III	25%

Approximate plan of lectures:

Week#1	Chapter 1	Basic Circuit Theory
Week#2	Chapter 1	Basic Circuit Theory
Week#3	Chapter 2	DC Circuits
Week#4	Chapter 2	DC Circuits
Week#5	Chapter 3	Dynamics of Circuits

EXAM I

Week#6	Chapter 3	Dynamics of Circuits
Week#7	Chapter 4	AC Circuits
Week#8	Chapter 4	AC Circuits
Week#9	Chapter 5	Complex Frequency
Week#10	Chapter 5	Complex Frequency

EXAM II

Week#11	Chapter 6	Power in AC
Week#12	Chapter 6	Power in AC
Week#13	Chapter 7	Power Systems
Week#14	Chapter 7	Power Systems
Week#15	Chapter 7	Power Systems

EXAM III (Final Exam)