

GEORGIA INSTITUTE OF TECHNOLOGY
School of Electrical and Computer Engineering

ECE 2040
Circuit Analysis
Spring Semester 2001

Class Hours:

MWF 9:05 am – 9:55 am

Instructor:

Russell M. Mersereau
Office: GCATT Room 338
Phone: (404) 894-2913
FAX: (404) 894-8363
email: rmm@ece.gatech.edu

Office Hours:

MWF 8:00—9:00; 10:00—11:00
Other times by arrangement

Teaching Assistant:

TBA

Course Objectives:

To study basic analytical methods for passive networks composed of resistors, capacitors, and inductors. Kirchoff's Laws, mesh and node analysis, network theorems, Solution of circuit equations using Laplace transforms. Frequency and transient behavior of circuits.

Course Prerequisites:

ECE 2025 and PHYS 2122; Corequisite MATH 2403

Grading Formula:

Quiz #1	15%
Quiz #2	15%
Quiz #3	15%
Quiz #4	15%
Final	30%
Homework	10%

Text:

Introduction to Electric Circuits (5th Edition), by R. Dorf and J. Svoboda, Wiley.

Web Pages:

Copies of class problem sets and solutions are available in postscript form on the class web site located at:

<http://users.ece.gatech.edu/~rmm/spring2001/ece2040/ece2040spr2001.html>

Old problems, solutions, quizzes, and quiz solutions are available at

<http://users.ece.gatech.edu/~rmm/fall2000/ece2040/ece2040fall2000.html>

<http://users.ece.gatech.edu/~rmm/spring2000/ece2040/ece2040spr2000.html>

<http://users.ece.gatech.edu/~rmm/spring99/ee2250/ee2250spr99.html>

<http://users.ece.gatech.edu/~rmm/winter99/ee2250/ee2250w99.html>

Please be aware that the arrangement of topics in the past has not always been the same as it will be this semester.

Course Structure:

The class will meet three times per week. Problem sets will be handed out once per week during the Friday class. Problem sets may be worked in groups so long as all in the group participate fully, but simply copying someone else's solution is not acceptable. Problem sets will be graded and solutions handed out. Problem sets will be due at the beginning of the Friday class. Once the solutions have been handed out, solutions will not be accepted for credit. **Problem solutions that are identical to previously distributed solutions will receive no credit.** If you miss or lose a class handout, they will be available on the 4th floor of VanLeer outside room E-475.

Attendance:

Regular attendance in class is strongly recommended, but is not mandatory. **Attendance, at the quizzes and final exam, however, is required.** Make-up exams will be given only by pre-arrangement or in the case of certified emergencies. Certification must be presented in writing. (Examples include statements by a doctor, court officer, etc.)

Important Dates:

Quiz #1	Monday, January 29, 2001
Quiz #2	Monday, February 19, 2001
Quiz #3	Friday, March 23, 2001
Quiz #4	Monday, April 16, 2001
Final Exam	Tuesday, May 1, 2001 (period 6) (tentative)