

ECE 3040
Microelectronic Circuits
SUMMER 2005

The information on this syllabus is tentative and subject to change.

Instructor: Dr. W. Marshall Leach, Jr., Van Leer E388, 404-894-2963, (Secretary: 404-894-2973), email: mleach@ece.gatech.edu.

Time and Location: MTuWF, 12:00 - 1:10 p.m., Van Leer C340.

Class URL: <http://users.ece.gatech.edu/~mleach/ece3040/>

Office Hours: TTh 3:00 - 4:00 p.m.

Textbooks: *Semiconductor Device Fundamentals* by Pierret and *Microelectronic Circuit Design* by Jaeger.

Material: Selected material from Jaegar Sections 2.1 - 2.9, 3.1-3.16, 4.1-4.4, 4.8-4.9,4.12, 5.1-5.7, 5.95.10, 5.12, 6.1-6.2, 7.1-7.2, 7.5, 11.1-11.3, 13.1-13.11, 14.1-14.4, supplementary material from Pierret, and class notes posted on the class web page.

Class Structure: Each week, a homework assignment will be posted on the class web page. Partial solutions and answers will be given for each problem. The following Wednesday, a 20 minute quiz will be given. It will be based on the homework assignment and the class lectures. Solutions will be posted on the class web page. The homework will not be collected. No quiz will be given the first week of classes. Thus there will be a total of 9 quizzes during the semester. The lowest score will be dropped. If you feel that your quiz should be regraded, you must submit it within one week after the quizzes are returned in class.

Grading:

Quizzes:	The highest 8 out of 9 quizzes at 9.375% each
Final Exam:	25%

Pertinent Dates:

Holidays:	Monday, May 30 and Monday, July 4
Drop Day:	Friday, June 24
Mid-Term Recess:	None
Weekly 20 Minute Quizzes:	At the end of class each Wednesday
Final Exam:	Thursday, Aug. 4, 8:00 – 10:50 a.m.

Classroom Decorum: Arrive for class and be seated before the bell. If you must enter or leave the classroom during the lecture, do not let the door slam. Do not talk in class. Turn your cell phones and pagers off before class begins. Do not use a cell phone in class. Do not leave the classroom to make or receive a cell phone call. School policies prohibit the consumption of food and beverages in the classroom.

Academic Honesty: If you wear a cap when taking a quiz, turn it around so that the bill does not cover your eyes. No cell phones allowed on the tables during quizzes.

Classroom Announcements: Class email lists are set up by the School of ECE for each class. Students are expected to read all email sent to the class list that relates to the course. Students will be held responsible for any announcements, assignments, etc., sent via email. Excuses will not be accepted if your email bounces because of an invalid email address, a disk quota that is exceeded, or any other such reason. If you drop the course, you will still receive class email unless you have your name removed from the email list maintained by the ECE Computer Support Staff.