Instructor: Arn Stolp  
Office: MEB 3256  
Phone: U of U: 581-4205  
Home: 969-5553 (Only if it’s important)  
E-mail: arnstolp@ece.utah.edu (I don’t check my e-mail very regularly, so it may be a while before I read what you send)  
Office hours: My “office hours” is the problem session. Otherwise it’s catch me if you can. To increase your chances, talk to me after class to say when you’d like to see me. I’m usually around until at least 2:00 p.m. M, W, Th & F. If I’m not in my office, check the lab.

Web Site: http://www.ece.utah.edu/~ece2210/index2200.html

Required books and lab supplies:
- Textbook: Foundations of Electric Circuits, by J. R. Cogdell
- Class material pack (available from Copy Center, rm 158 Union) & Ring binder
- Lab notebook (bound or spiral)
- Super-strip (proto-board) & Lab card to buy parts (unless you want to use my parts)

Prerequisites:
- MATH 2250 and PHYCS 2210, PHYCS 2220 is strongly recommended

Introduction:
In case you haven’t noticed, you’re surrounded by electrical and electronic devices. Electrical measurement and control is powerful and cheap, so it’s used everywhere and affects every technical career, including yours. Maybe you can find a job where other people make all the decisions concerning wiring, power distribution, electric motors, communications systems, instrumentation, and control; but do you really want that? Do you really want to be the clueless one?

This class will try to introduce you to some of the basics of electrical engineering. This may not seem important now, but I think you will find these concepts very useful in your future classes and jobs. Besides, they’ll help you pass the FE exam, and that should be of immediate concern.

I teach concepts and the use of those concepts to solve problems, not formulas and memorization. The hands-down easiest way get a good grade in this class is to learn those concepts.

This class consists of:
Lectures: W & F 9:40 -10:30 am in EMCB 101
Lectures set the direction and tone of the class and cover more than the written material. You will be held accountable for everything discussed in the lectures, so your attendance is important.
**Problem Session:** M 9:40 -10:30 am in EMCB 101  
We cover a lot of material in this class and there is rarely enough lecture time to work examples or to answer your questions in detail. I will not cover new material in the problem session, so you can get by without coming, but I think you'll find it worth your while.

**Textbook:**  
It's not great, but it’s cheap and it covers much of what we need.

**Supplementary Packet:**  
I've supplemented the textbook with class material pack you will be able to buy from the copy center. This packet contains homework assignments, lab instructions, and class notes. Most of this material is also available on the web site; http://www.ece.utah.edu/~ece2210/index2200.htm.

**Homework, homework, and more homework:**  
50 pts.  
I will assign a lot of homework, it will be your main study tool. As such, I'll give you all the answers so that you can check your work immediately. In fact, you'll have to self-correct your homework. If you can’t get the answer, check the web site for corrections, study some more, come to the problem session, ask for help, or see the posted solutions. Sometimes I even post solutions before the homework is due. So, you might ask, “Why is it handed in and ‘graded’?” Well, to answer a question with a question, “Would you even do it otherwise?”

Your homework should be neat and clear and show all your work. For most problems the grader will simply check to see that you’ve done it and that your paper shows the necessary work to get the answer. Only a few problems will be checked in greater detail. You may collaborate with others to learn how to do the homework, but will need to hand in your own work. Copying or allowing another student to copy your work is considered cheating.

You will probably learn more from doing the homework than any other part of this class. If you thoroughly understand the homework, you will know what the class is about, and the exams should give you no trouble.

Near the ECE office on the 3rd floor of MEB you’ll find some lockers with slots in the doors. Drop your homework in the ECE 2200 locker by 5:00 p.m. of the due date. I will accept some late homework for some credit. Bring it directly to me, and don’t do it habitually. Solutions will be posted in a glass case, also near the office. Graded homework, lab notebooks and exams will be returned by your TAs or in MEB 3269, your choice.

**Midterm:**  
100 pts.  
One 50 minute midterm will cover material up to the time of the test. My exams are designed to see if you learned concepts and problem solving strategies and whether you can work with them, sometimes in new and different ways. Don’t try to memorize formulas or specific problems. Exams also cover what you learn in the labs. All exams are open book, open notes.
Final: Mon., 2/26/07, or Wed., 3/7/06 100 pts.

The 50 minute final will be comprehensive with greater emphasis on the most recent material. I highly recommend that you take the later one so that you will have enough time to study. Unless you specifically ask me for the first exam by Friday, 2/23, I will assume that you will take the second one.

Labs: MEB 2365 60 pts.
Lab will be held every week, including the last week of class. Many of the subjects covered in lab aren’t covered anywhere else in class, so make sure you pay attention and read the lab instructions. You will have to keep a laboratory notebook as a requirement of the lab. Your lab TA will collect and grade these notebooks.

Labs are **not optional**. For each lab that you miss or fail ( < 60% score ), your final grade will suffer a **half letter drop** (5% of possible points). Be sure to make-up any labs you miss or fail.

Grades:

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<th>Pts</th>
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<td>Homework:</td>
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<td>Labs:</td>
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<td>90-93</td>
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<td>Midterm:</td>
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<td>Final:</td>
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If you want any deviations from the normal requirements (say credit for labs, if you’re taking the class for a second time) you will need to see me before the work would normally be due and get an agreement **in writing**. You’ll need to turn in your copy of the agreement with your final, so I’ll remember to grade you properly.

**Americans with Disabilities Act Information:**

The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the instructor and to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD) to make arrangements for accommodations.

All written information in this course can be made available in alternative format with prior notification.