Instructor: Arn Stolp  
Office: MEB 4510  
Phone: U of U: 581-4205  
Only if it’s important: Cell: (801) 657-7766  
E-mail: arnstolp@ece.utah.edu (I rarely check my e-mail, so let me know by some other method if you send me email that I need to read.)  
Office hours: My “office hours” are the problem sessions. Otherwise it’s catch me if you can. I’m usually around until at least 2:00 p.m. M, W, & F. If I’m not in my office, check the lab. To increase your chances, talk to me in class to say when you’d like to see me. I teach another class right after this one M, W, F.  

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

Required books and lab supplies:  
Practical Electronics for Inventors, 3rd or 4th Ed, by Paul Scherz  
2 required class material copy-packs (available from bookstore) & Ring binder  
Lab notebook (bound or spiral)  
Breadboard & Lab parts available for purchase at lab (~$16 on your U-card)  

Prerequisites: MATH 2250 and PHYCS 2220  

Introduction:  
In case you haven’t noticed, you’re surrounded by electrical and electronic devices. Electrical motion, measurement and control are powerful and cheap, so they’re used everywhere and are part of 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?  

ECE 2210 will 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 WEB L104  
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 Sessions: M 9:40am in WEB 104 & W __________ in ___________.

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:

The text contains a great deal of practical, useful information beyond the theoretical material we cover in this class. It should prove to be a good reference. We will be using the third edition.

Supplementary Packets:

I’ve supplemented the textbook with two packs of class material which you will buy in the bookstore. The second packet will be available in March. These packets contain class notes, homework assignments, and lab instructions. Much of this material is also available on the web site; http://www.ece.utah.edu/~ece2210/.

Homework, homework, and more homework: 100 pts.

I will assign many problems for you to turn in, most of which will come from hand-outs, expect homework at every lecture. Homework 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.

On the 2nd floor of MEB, in center hallway, you’ll find some lockers with slots in the doors. Drop your homework in the ECE 2210 HOMEWORK 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 near my office. Graded homework, lab notebooks and exams will be returned to a file cabinet in MEB 2101 according to a folder number you will receive later. Once you get your number, you should write it on the upper left-hand corner of everything you hand in. Your material will be an unlocked drawer and will not be secure. If you want your material returned to a locked location, simply remove your file and slip it under my office door.

ECE 2210 Spring 2017 Syllabus p2
Midterms: 300 pts.
You will take three 50-minute midterms throughout the semester. They 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 closed book, closed notes, no phones, tablets or computers allowed.

Final: Tuesday, 5/2/17, 8:00 -10am 180 pts.
The final will be comprehensive with greater emphasis on the most recent material. There will be a review Monday, 5/1, 3:30pm probably in WEB L104, listen in class for details.

Labs: MEB 2265 120 pts.
Lab will be held every week, beginning the second week and 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.

Two labs will be replaced by a special lecture during lab time. If you’re in a Monday lab section you will be required to make up holiday time by attending a lecture in a different lab section as well as your lab at your regular time.

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>
<th>% of total</th>
<th>Grade</th>
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<td>Homework:</td>
<td>100</td>
<td>&gt; 93</td>
<td>A</td>
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<tr>
<td>Labs:</td>
<td>120</td>
<td>90-93</td>
<td>A-</td>
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<tr>
<td>Midterms:</td>
<td>300</td>
<td>87-90</td>
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<tr>
<td>Final:</td>
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<td>83-87</td>
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<td>Total:</td>
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<td>70-73</td>
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If you want any deviations from the normal requirements (say credit for labs, you’ve done before) 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.