

Syllabus – EE 70 / 70L
Introduction to Electronic Circuits / Lab

- Instructor: Cliff Hwang
- E-mail: cliff_hwang@hotmail.com
- Phone: 408–855–5567 x5804 (contact via email preferred)
- Office Hours: T 4 pm – 4:30 pm (entire quarter) BE 129
Th 1:30 pm – 2 pm (only until 1/24)
- Teaching Assistant: **Hyunchul Kim (hyunchul@soe.ucsc.edu)**
Reader: Dehui Huang (dhuang@ucsc.edu)
- URL / Home Page: <http://www.soe.ucsc.edu/classes/ee070/Winter08/>
- Section ID: 35490 (Lecture) and 35491 (Lab) (concurrent enrollment in the lab section is required)
- Pre-Requisites: Physics 5C/5N (or 6C/6N) (Electricity / Magnetism)
Math 24 (or 27 or EE 27) (Calculus, Differential Equations)
(Warning: this class covers algebra and calculus concepts heavily)
- Meeting Times: Lecture: T Th 2 pm – 3:45 pm Physical Sciences 130
Lab: Dates/Time to be determined Baskin Engineering 150
Disc. Sections: Th 4 pm – 5:10 pm or 6 pm – 7:10 pm BE 169 (led by TA)
- Grading: Homework (weekly) (15%)
Midterm 1 (Tuesday, January 29th) (25%)
Midterm 2 (Tuesday, February 19th) (25%)
Final exam (comprehensive, Tuesday, March 18th, 4 pm – 7 pm) (35%)
(Warning: you must do well on the exams to pass the course. Doing well on homework alone is not sufficient)
- Textbook: “Electrical Engineering: Principles and Applications” (4th edition),
by Allan Hambley (ISBN: 978-0-13-198922-1)
- Topics: Selected material from Chapters 1–6, 10–12, and 14
We will cover 2-3 sections each lecture. See class schedule (on web page) for more details.
(Note: Topics are not covered in order of appearance in the textbook)
- Homework Policy: 1. Homework assignments will be submitted before class starts
2. No late homework accepted (*there are no exceptions to this*)
3. Work must be clear, complete, and legible.
(points will be taken off for sloppy work on homework or exams)
- Lab Sessions: 1. Lab sessions will be run by the TA.
2. Lab reports will be submitted to the TA for grading.
3. Check the web page for the dates and time that each lab will be held.
4. You must pass the lecture portion of the class in order to pass the lab.
5. Each lab will be posted on the web page and should be printed out and brought to the lab session.
6. Lab reports must follow certain guidelines to be acceptable work (see the web page).

Basic Class Rules:

1. Please show up on time.
2. Avoid lengthy discussions or loud talking with your peers during lecture.
3. Please put cell phones and pagers in silent/vibrate mode during class.
4. I do not provide lecture notes. If you miss all or part of a lecture (even if it is an excused absence or illness), get the notes from a classmate. Homework assignments (and solutions) can be found on the class web page.
5. If you choose to drop the class, it is *your* responsibility to take care of the necessary paperwork. If your name remains on the roster at the end of the quarter, you will be given an 'F'. Be aware of the drop deadlines.
If you plan on dropping EE 70, make sure you also drop the lab section. Based on department policy, if you withdraw from EE 70, no credit can be given for the lab. A failing grade will be assigned to the lab section if you do not drop the lab section. Furthermore, if you fail the course, you must receive a failing grade in the lab, regardless of what you actually got in the lab. In other words, it is not possible to fail the course and pass the lab. It is possible, however, to pass the lecture and fail the lab. In that case the lab portion can be retaken.
6. Students who drop the class may still be given a written evaluation.
7. Students who want permission codes to add the course must show me proof that the prerequisites have been met. Either an official transcript or a non-official grade report will suffice.
8. Regrades on homeworks and exams must be done within 1 week after they have been returned to you. You will not be allowed to dispute homework or test results at the end of the quarter, after grades have been assigned.
9. If you cannot make it to an exam, you must let me know in advance. No make up exams will be permitted *under any circumstances*.
10. Students who do not pass any of the 3 exams given this quarter will not be allowed to pass the course.
11. There is no extra credit available. Do the homework and do well on the exams if you want to get a good grade.

Cheating and Plagiarism:

"During an examination or on any work for which the student will receive a grade or points, unauthorized looking at or procuring information from any unauthorized sources, or any other student's work".

"Presenting the work of another as one's own for a grade or points".

Campus policies regarding academic integrity will be enforced. If I, the TA, or the reader believe you have cheated or plagiarized, you will receive at least a 20% deduction on the assignment in question and may be subject to disciplinary action by the university.

Examples of cheating include:

1. Sharing results or looking at someone else's results during an exam.
2. Copying answers out of a solutions manual.
3. Copying answers from someone else's homework in the class
4. Copying answers from a homework assignment assigned in prior offerings of EE 70
5. Showing your homework solutions to someone else in the class before the assignment is due. In this situation, both people will receive a failing grade on the assignment. (note: it's okay to discuss the problem with your peers... however, do not give or show your homework solution to that person)

Please don't copy from other students or from a solutions manual! It's easier to catch than you may think.

Tips for Success:

1. Read the material in your textbook (preferably before class). Do not expect me to cover the textbook material in exhaustive detail.
2. Pre-requisites are enforced in this class. You should already have some background in physics (E&M), calculus, differential equations, and complex number manipulation. We will use these tools heavily and often. Dig up your material from those previous courses if you need to refresh your memory.
3. Refer to the examples and exercises in the textbook if you have problems doing the homework.
4. Check your homework with the solutions after they have been returned to you. Make sure you understand what you did right (or wrong).
5. This class will move at a fairly rapid pace. Results from one week are applied to the following week. Make sure to keep up with the material.
6. Use the resources around you to figure out what you don't understand. (myself, the TA, or your fellow students)
7. Participate in class and ask questions. (I'm here to help)
8. Homework only counts 15% towards your final grade. Use the homework to prepare yourself for the exams. You must do well on the exams to pass the class. Make sure you can solve circuits on your own in a fixed amount of time.

** TURN IN THIS PAGE BEFORE YOU LEAVE TODAY **

I have read the EE 70 / 70L syllabus and understand/accept all the conditions stated within it:

Name (print): _____

Signature: _____

EE 70L Lab Day and Time Scheduling:

In the table below, please shade in the times and dates you **will not** be able to make it to an EE 70L lab. Legitimate reasons include: work schedule, other classes, etc. However, “I want to sleep in that day”, “I have to wash my hair that night”, etc. are not legitimate reasons. The key here is to be flexible. There are over 25 schedules we have to work with here.

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|------------|--------|--------|------------------|-----------|---------------------|--------|----------|
| 8-9 am | | | | | | | |
| 9-10 am | | | | | | | |
| 10-11 am | | | | | | | |
| 11-12 noon | | | | | | | |
| 12-1pm | | | | | | | |
| 1-2 pm | | | | | | | |
| 2-3 pm | | | EE 70 Lecture | | EE 70 Lecture | | |
| 3-4 pm | | | | | | | |
| 4-5 pm | | | | | EE 70 Discussion | | |
| 5-6 pm | | | | | | | |
| 6-7 pm | | | | | | | |
| 7-8 pm | | | | | | | |
| 8-9 pm | | | | | | | |