



COLLEGE OF ENGINEERING
Ca/VIEW-Virtual Instruction for the Engineering World
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BERKELEY, CALIFORNIA 94720-1702

August 9, 2007

Dear Colleague:

Welcome to EECS 231! My name is Chung-Hsun (pronounced "Chung-Shoon") Lin, and I will be the NTU course consultant for Professor Vivek Subramanian's advanced device physics course. I took this course in Spring 2003 during my first year of graduate school and I can assure you that it is both interesting and challenging. The tapes for this course were recorded in the Spring 2006 semester, and they include the latest material on device physics and electronics.

You can read about my technical background at:

<http://www-device.eecs.berkeley.edu/~chl/>.

I received my B. S. and M. S. degrees in [Electrical Engineering](#) from [National Taiwan University](#), Taipei, Taiwan, in 1999 and 2001, respectively. I am now a Ph. D student at the [University of California at Berkeley](#) under Prof. Chenming Hu's supervision.



Chung-Hsun Lin

During my master's degree study under Prof. Chee Wee Liu's supervision, my research interests included the improvement of reliability on MOS devices by deuterium incorporation, the roughness-enhanced reliability and functionality in MOS device, the mechanism of soft breakdown in MOS tunneling diodes, and the strained-Si enhanced performance in device. In August 2002, I became a Ph.D student at [University of California at Berkeley](#). My current research interests include the compact modeling and circuit performance of double-gate SOI MOSFETs.

EECS 231 has been one of the most useful and interesting classes I have taken at Berkeley. It is one of the core classes for device physics, and should give you an excellent background as well as expose you to some of the more interesting areas of current research. If you have any questions, please do not hesitate to contact me. My office hours and other critical information are detailed in the course information packet distributed with this letter. If you wish to reach me outside my regular office hours, please send me an email and we can arrange an appointment. My email address is chl@eecs.berkeley.edu

Three conference calls will be scheduled for the semester. One introductory conference call will be made by me at the beginning of the semester, followed by a call before each of the two exams. Professor

Subramanian will host two conference calls to answer questions about the latest trends and research interests in the field. We will let you know the days and times of those conference calls as soon as he sends us a confirmation. The engineers enrolled in EECS 231 will undoubtedly have a wide variety of backgrounds and expertise, and conference calls provide the opportunity for all of us to benefit and learn from each other's questions and personal specialties.

The course will have 5 homeworks which will be distributed electronically throughout the semester. The tentative due dates are posted in the course syllabus, although they might be adjusted later in the semester. There will be two exams, which I have scheduled for the weeks of November 5 - 9 and December 17 - 21. In both cases, you will have until the Friday of each week to postmark the exam to me via fax, email or regular U.S. "snail" mail. There will also be a final project, which must be postmarked by December 21. The intention of the project is to allow you to explore an area of research in more depth and apply the concepts that you have learned in the course.

The project can either be an in-depth technology review of a given area of research, or you can research a problem of particular interest to you. You should start considering what your project will be at the beginning of the semester, and by mid-term, you should be settled on your topic area. If you are unsure of a topic area, please feel free to bring it up with me during one of the conference calls.

The grading for the course will be weighted as follows:

Exam #1: 30%

Exam #2: 30%

Final Project: 30%

Five Homework Assignments: 10% (2% each)

All items should be addressed to my attention at the Cal VIEW Office, 205 McLaughlin Hall, College of Engineering #1702, University of California, Berkeley, CA 94720 - 1702. The phone number is (510) 642-5776 and the Fax number is (510) 643-5877.

I have included a sheet of return labels in this packet for the return of your homeworks. If you need additional labels just let the CalVIEW office know, and they will send you more. Also, please make a copy of everything you send me, in case work disappears en route and DO NOT FORGET to put your name, the course number NEEI 6302 and the homework number on anything you turn into the office. Cal VIEW staffers receive a lot of correspondence from students and it can be difficult for them to decipher homeworks when there is no name, homework number or class name indicated.

You will notice that I have included a picture of myself with this letter. I am sure I will get to know all of you throughout the semester. I look forward to a rewarding semester working with each of you.

Sincerely,

Chung-Hsun Lin