CMPE12/12L: Computer Systems and Assembly Language
General Information and Syllabus

Spring 2005
MWF: 9:30am – 10:40am
Class room: Social Science 2 room 71

Instructor: Cyrus Bazeghi
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Office Hours: MW 2:30 to 5:00 and by appointment
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Key Dates
Final Exam: Tuesday, June 7th, noon-3pm
Exam #1: Monday, April 25th
Exam #2: Wednesday, May 25th

Required text book

Optional reference
“Computer Organization and Design: The Hardware/Software Interface 3rd edition” by Patterson and Hennessy, Morgan Kaufmann, 2005

WWW site and Discussion Forum
Website: http://www.soe.ucsc.edu/classes/cmpe012/Spring05

Check this site often as this is where the homework assignments, lecturer notes, homework, and test solutions are posted. You are expected to read all the material on the website.

Discussion Forum: http://apps.soe.ucsc.edu/forums/

Use the discussion forum to post questions to the tutors and the TA’s about lab and class material, ask questions to other students, or start discussions about class and lab material. Do not expect fast replies from the instructor, use email or the phone for a timely response. Check this often as class announcements will be made on here.

Course Work – CMPE 12

Attendance is highly recommended for the lectures as the material rapidly builds upon each topic. Please see the website for details on what is expected of you. Lecture material will be available on the website, usually before covered in class.

There will be semi weekly homework assignments which are required and graded. There will be two exams during the quarter and one comprehensive final exam. The exams will be based on homework and lecture material. There may also be occasional pop quizzes. There is no formal grade for quizzes but they will be used to determine border line cases. No calculators are ever allowed for any exam, using one will be considered cheating.
If you have any disability-related needs, be sure to contact the Disability Resource Center well in advance of any expected need.

**Class Evaluation:**

The class grade is determined by the following criteria: Homework (20%), Exam #1 (20%), Exam #2 (20%) and the Final Exam (40%).

**Lab Work – CMPE 12L**

You must be enrolled in CMPE12L to remain in this class unless you have previously taken and passed the lab class. You must pass CMPE12 to pass CMPE12L. You may pass CMPE12 and fail CMPE12L. Attendance in lab section is required so be sure to enroll in a section you can attend.

The labs will start out with basic hardware design and then transition to programming. We will be working with **two** assembly languages in this course based on two processors: a 16-bit RISC type processor, the LC-3, covered in the text book, and a neat 8-bit microcontroller from Motorola, the HC11. We will also be doing C programming on either a SPARC (UNIX) system or on the HC11 microkits. See the class website for more information on the lab.

There will be lab assignments throughout the quarter that will have you do logic design or write programs in one of the languages covered in class. No collaboration is allowed on lab assignments unless explicitly permitted in the assignment write-up. When permitted, **collaboration must be acknowledged** and may only be with current course staff or students currently enrolled in CE12L. Failure to give credit when collaboration is allowed is a form of academic dishonesty and can be grounds for failure of the course. **You are not allowed at any point to share actual code with another student unless you are in a professor approved pair**, collaboration is the discussion of the topic and how to solve it at a high level.

**Lab Evaluation:**

Your lab (CMPE 12L) grade is determined solely by your performance on the lab assignments. Though the lab grade does not directly contribute to the course grade, the material covered in the lab is meant to reinforce the material presented in class. Thus doing well in the lab will directly improve your class performance.

**Academic Honesty**

Academic honesty is a requirement for the course. All material produced must be your own independent work; this includes homework, exams, and lab assignments.

What is cheating? In the class it is copying answers during exams, using a calculator, or bringing in unauthorized reference material. Homework should be done independently though comparing answers is permitted as long as you work through the problems together when there are differences. Copying is **NEVER** acceptable.

In the lab cheating is sharing code or solutions when not **explicitly** told it is permitted. Submitted labs are electronically compared to all other submitted labs, including past labs for similarities. The code checker tool checks all lab assignments for common cheating practices, renaming variables, moving code sections, changing comments and other formatting changes.

If a student is caught cheating in either the class or lab this will result in failure in the class and lab and further damage to your academic career as appropriate. **DO NOT CHEAT, IF CAUGHT YOU WILL BE DROPPED FROM THE CLASS AND THE LAB AND REPORTED TO YOUR COLLEGE AND THE DEPARTMENT.** It is not worth it, please do not do it.