

Comp 303 Computer Architecture

Fall 2013

Course Description

COMP 303 covers basic computer organization and systems programming. We will cover performance metrics, data formats, instruction sets, addressing modes, computer arithmetic, datapath design, memory hierarchies including caches and virtual memory, I/O devices, and bus-based I/O systems. The projects will cover systems programming. The course is open to any undergraduate who has mastered the material in digital design and basic programming.

Instructor

Comp 303 Emine Yilmaz

Room: ENG Z12

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Office Hours: Tuesday and Thursday, 15:15 – 16:15; or by appointment

Lectures

Room: ENG B30

Time: Tue, Thu 14:00 - 15:15

Grading

Project	25%
Homeworks	10%
Midterm	20%
Quizzes/Attendance	15%
Final	30%
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Total	100%

Textbook

We are going to be using "Computer Organization and Design: The Hardware/Software Interface," Fourth Edition, by David A. Patterson and John L. Hennessy, published through Morgan Kaufmann. Textbooks are available at the campus bookstore.

Requirements

This class has four components: lectures, weekly reading, homework assignments, and a class project. You are expected to keep up with all of them.

Academic Integrity

You are expected to maintain a high level of ethical standards and integrity in this course. This means that *all* work you submit must be the result of your own individual effort.

You may discuss homework problems with other students in the class, but you may not collaborate on the actual development or writing of the solutions. Under no circumstances would it be acceptable for two or more students to turn in substantially similar answers to a homework problem, or to have possession of each others' homeworks. We are checking the assignments with past years students' projects. Everyone with whom you discussed the homework set must be cited on the submitted homeworks. No part of the homework may be copied from or be based on solution sets on the web - also keep in mind that the solution sets on the web are often incomplete and incorrect.

The same standards apply for group projects at the group level. Group members are expected to turn in the result of their collaborative work with other members of the same group. No group should at any time be in possession of another group's solution, or copy another group's solution. **It is your responsibility to protect your work from unauthorized access.**

Any violations of the academic integrity code will be penalized, and may result in failure in the course, suspension, or expulsion from the university.