Syllabus

CS 2613 - Computer Organization
Fall 2007


Course Web Address: https://learn.ou.edu/

Instructor: Dr. Mohammed Atiquzzaman
Office: EL-159
Tel: 325-8077
Email: atiq@ou.edu

Office Hours: Mondays and Wednesdays 10.30 – 11:30 and by appointment

Lectures: M W F: 9:30 - 10:20, Sarkeys M207

Lab: F: 9:30 - 11:20, Sarkeys P209

Teaching Assistant: Yuh-Rong Chen
Office: EL 158
Email: yrchenm@ou.edu
Office Hours: Tuesdays and Thursdays 11:00am-12:00 noon and by appointment.

Prerequisite: ECE 2213 (Introduction to Digital Design) or CS 2603 (Applied Logic for Hardware and Software)

Course Description: An introduction to the architecture, organization and design of uniprocessor-based computer systems. Topics include processor, control and memory design and organization, pipelining and vector processing, computer arithmetic, I/O organization and a brief introduction to multiprocessors.

Course Outline:
Overview and Background (Chapters 1-3)
Register Transfer and Microoperations
Basic Computer Organization and Design
Programming Issues
Microprogrammed Control
Central Processing Unit
Principles of Pipelining and Vector Processing
Computer Arithmetic
I/O Organization
Memory Organization
Introduction to Multiprocessors

Grading: Approximately six homework sets will be assigned. A short in-class quiz will be given covering the material of each homework assignment.

Approximately six lab exercises will be assigned. Each lab exercise will typically consist of a pre-lab portion followed by an in-class exercise where hardware circuits will be constructed.

One assembly language programming project will be assigned. Three exams, including the final, are also scheduled.

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<th>Component</th>
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<tr>
<td>Quizzes</td>
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<td>Labs</td>
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<td>Programming Project</td>
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<td>Exam 1</td>
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<td>Exam 2</td>
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Students with Disabilities: Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the instructor as soon as possible to make necessary accommodations.

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http://www.ou.edu/provost/integrity-rights/