

Comp 233
Computer Organization and Architecture
Spring 2012

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Office Hours: Monday 12:30 – 1:20, 2:30 – 3:20
Tuesday 1:30 – 3:00 *During these times I will try to always be in my office or nearby. You are also welcome any other time I'm in my office. Special appointments may be arranged as well.*
Wednesday 12:30 - 1:20, 2:30 – 3:20
Thursday 3:00 – 4:20
Friday 12:30 - 1:20, 2:30 – 3:20

Text: Warford, J. Stanley, *Computer Systems*, Jones and Bartlett, 2010.

Objectives: To learn how the various components of a computer system interact and to learn how software manipulates hardware. Upon completion of the course you should be able to construct simple components from logic gates, have a working knowledge of the fundamental hardware components of a typical computer system, articulate the fetch-execute cycle and be able to understand and write generic assembly language programs and simple programs in C/C++.

Structure: The class will consist of lectures/discussions and group activities. The material presented in class will overlap that of the text but will contain additions and variations.

We will have 2 exams during the course of the semester—a midterm and a final. The exams will be designed to reinforce your understanding of the material presented and discussed in class as well as evaluate your mastery of it. We will also have 3 or 4 short quizzes.

As homework I will assign selected exercises from the text and occasionally from other sources. You will be given a short assignment almost every class. You will usually have about two class periods to complete these.

Due dates for the homework assignments will be announced when they are given. Assignments must be turned in at the beginning of class on the day due. A penalty of 15% per class period will be assessed on late assignments.

Attendance: You are expected to attend each class. The attendance portion of your grade will be the percentage of classes for which you are actively present. If you must miss a class for any reason, you are responsible for any material covered in your absence. If you must miss an exam or quiz, you will need to contact me before the period you miss to schedule a make-up.

Grades: Final grades will be based on the following percentages.

Midterm Exam	20 - 25 %
Final Exam	20 - 25 %
Quizzes	20 - 25 %
Homework Assignments	20 - 25 %
Attendance & Participation	5 %

Academic Dishonesty:

Acts of dishonesty will be handled in accordance with SMSU's academic dishonesty policy. While you are encouraged to collaborate when working on homework assignments, you should not share your finished work with someone else nor ask someone else to share theirs with you.

Semester Schedule (Tentative)

Topic	Approximate Dates	Text References
I. Introduction	1/9 – 1/11	Chapter 1
II. C/C++ Programming	1/13 – 1/30	Chapter 2
Quiz 1		
III. Data/Information Representation	2/1 – 2/13	Chapter 3
IV. Computer Architecture	2/16 – 3/14	Chapter 4
Quiz 2		
Spring Break — No Class	3/5 - 3/9	
Mid-Term Exam	3/16	Chapters 1-4
V. Assembly Language	3/19 – 3/28	Chapter 5
VI. Combinational Circuits	3/30 – 4/6	Chapter 10
Quiz 3		
VII. Sequential Circuits	4/9 – 4/27	Chapter 11
Quiz 4		
Review — Course Wrap Up	4/27	

Final Exam:

The final exam period is scheduled for Tuesday, 5/1/2012 at 10:00 AM.
Make your travel plans accordingly.

*The material covered for each topic, the exact nature of the assignments
and the pace of the course will be
determined by the interest and progress of the class members.*