



Department of Computer Science

Spring 2017

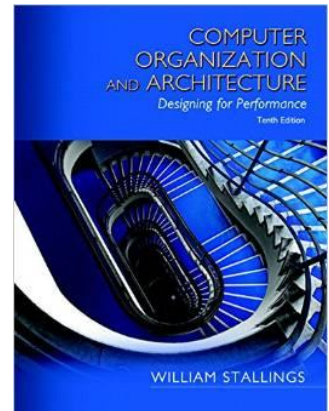
CS 219 – Computer Organization (Section 1002)

Mon & Wed 5:30pm – 6:45pm @ CBC C110

Instructor: Dr. Jisoo Yang
Phone: (702) 895-3918
Office: TBE-B372D
Email: jisoo.yang@unlv.edu
Office hour: Mon/Wed 10:00am – 11:00am, 3:00pm – 5:00pm, and by appointment
Class website: <http://webcampus.unlv.edu>
Graduate Assistant: TBA

Textbook

“Computer Organization and Architecture: Designing for Performance”,
by William Stallings, Pearson publishing, 10th Edition.
ISBN-10: 0134101618



Prerequisites

- CS 202 – Computer Science II
- CS 218 – Introduction to Systems Programming

Course Topics

- Basic organization of digital computers, including I/O units, arithmetic logic units, control units and memory organization. Number and character representations. Instruction sets and addressing. Microprogramming.

Course Objectives

- Understand organization of computer systems, identify the parts and their operation mechanisms.
- Understand elements of instruction set architecture and their application to commercial systems.
- Understand microarchitecture concepts, learn their performance implications.
- Learn the history of computer and discuss the future of computer.

Homework

- 6 homework assignments
- Should be handed in hard copy in class when class begins at 5:30pm

Quiz

- 6 scheduled, in-class quizzes (closed books and notes)
- Your lowest quiz score will be ignored

Midterm exams

- Closed books and notes
- Feb 22nd and Apr 3rd, in class 5:30pm – 6:45pm

Final exam

- Closed books and notes
- May 10th, Wednesday, 6:00pm – 8:00pm @ CBC C110 (classroom)
- The final exam will cover materials from the entire course, with emphasis on later materials.

Grading

- Midterm and final scores will be normalized to class's highest score.
- Your homework scores will be added and then normalized to class highest score.
- All quiz scores, except the lowest, will be added and then normalized.
- The normalized scores will be weighted using the table below to arrive final letter grade.

Test	Weight
Midterm 1	20%
Midterm 2	20%
Final	35%
Quiz	10%
Homework	15%
Class participation	Up to extra 5%

- The final letter grade will be curved, with midpoint roughly at B-.
- Instructor reserves the right to adjust class-wide normalization factor.

Class schedule (subject to change)

	Week of	Monday	Wednesday
1	Jan 16	MLK Jr. Day Recess	
2	Jan 23	Homework #1 Assgn	
3	Jan 30	Quiz #1	
4	Feb 6	Homework #2 Assgn	
5	Feb 13	Quiz #2	
6	Feb 20	Washington's Birthday Recess	Midterm exam 1
7	Feb 27	Homework #3 Assgn	
8	Mar 6	Quiz #3	
9	Mar 13	Homework #4 Assgn	
10	Mar 20	Quiz #4	
11	Mar 27	Homework #5 Assgn	
12	Apr 3	Quiz #5	Midterm exam 2
13	Apr 10	Spring Break Recess	Spring Break Recess
14	Apr 17	Homework #6 Assgn	
15	Apr 24	Quiz #6	
16	May 1		
17	May 8	Final week – No Class	Final exam

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Academic Misconduct – Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility and professionalism. By choosing to join the UNLV community, students accept the expectations of the Student Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's function as an educational institution. An example of academic misconduct is plagiarism. Plagiarism is using the words or ideas of another, from the Internet or any source, without proper citation of the sources. See the Student Academic Misconduct Policy (approved December 9, 2005) located at: <http://studentconduct.unlv.edu/misconduct/policy.html>.

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Religious Holidays Policy – Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The make-up will apply to the religious holiday absence only. It shall be the responsibility of the student to notify the instructor within the first 14 calendar days of the semester of his or her intention to participate in religious holidays that do not fall on state holidays or periods of class recess. This policy shall not apply in the event that administering the test or examination at an alternate time would impose an undue hardship on the instructor or the university that could not reasonably have been avoided. Any student who is denied a make-up option after appropriately notifying the instructor, shall have the right to appeal that decision through the normal appeal mechanism in place. For additional information, please visit: <http://catalog.unlv.edu/content.php?catoid=9&navoid=839>.

Tutoring – The Academic Success Center (ASC) provides tutoring and academic assistance for all UNLV students taking UNLV courses. Students are encouraged to stop by the ASC to learn more about subjects offered, tutoring times and other academic resources. The ASC is located across from the Student Services Complex (SSC). Students may learn more about tutoring services by calling 702-895-3177 or visiting the tutoring web site at: <http://academicsuccess.unlv.edu/tutoring/>.

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Rebelmail – By policy, faculty and staff should e-mail students' Rebelmail accounts only. Rebelmail is UNLV's official e-mail system for students. It is one of the primary ways students receive official university communication such as information about deadlines, major campus events, and announcements. All UNLV students receive a Rebelmail account after they have been admitted to the university. Students' e-mail prefixes are listed on class rosters. The suffix is always @unlv.nevada.edu.