Department of Computer Science

Spring 2016
CS 370 – Operating Systems (Section 1002)
Mon & Wed 11:30am – 12:45pm @ SEB 1245

Instructor:	Dr. Jisoo Yang
Phone:	(702) 895-3918
Office:	TBE-B372D
Email:	jisoo.yang@unlv.edu
Office hours:	Mon/Wed 9:00am – 11:00am
Class website:	http://webcampus.unlv.edu

Textbook

"*Operating Systems: Principles & Practice*", by Thomas Anderson and Michael Dahlin, Recursive Books, 2nd Edition.
ISBN-13: 978-0985673529
ISBN-10: 0985673524

Prerequisites

- CS 302 and either CS 219 or CpE 300 with C or better
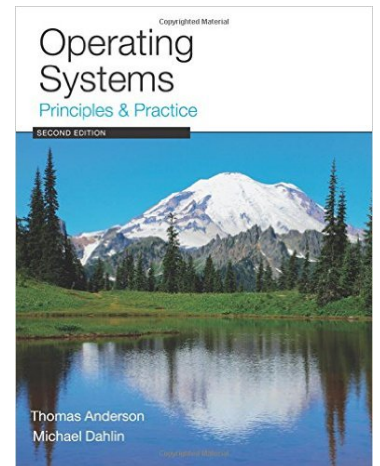- Advanced Standing

Course Topics

- Process abstraction, concurrency, threads, memory management, protection, file system
- Linux kernel code on x86 will be used as a working example throughout the class
- Review and discussion of select papers on system software

Course Objectives

- Understand process abstraction and how it is implemented by kernel
- Understand the issues with concurrent programming and synchronization
- Understand memory management and protection
- Understand file system and persistent store
- Learn contemporary systems issues such as virtualization and transactional memory

Programming Project and Homework Assignments

- 4 programming projects – must be written in C in Linux environment
- 6 homework assignments
- All assignments should be submitted to WebCampus by midnight on due date

- Late submission rule: you have total three days of allowance you can spend on programming projects you wish to submit late. You can only use it in units of one day.

Midterm exams
- Closed books and notes
- Mar 2nd and Apr 11th, in class 11:30am – 12:45pm

Final exam
- Closed books and notes
- May 11th, Wednesday, 10:10am – 12:10pm @ Classroom
- The final exam will cover entire materials from the beginning

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

Test	Weight
Midterm 1	15 %
Midterm 2	15 %
Final	25 %
Programming Project	35 %
Homework	10 %
Class participation	Up to extra 5%

- The final letter grade will be curved, with midpoint roughly at B-.

Class schedule (subject to change)

	Week of	Monday	Wednesday
1	Jan 18	MLK Jr. Day Recess	
2	Jan 25	Homework #1	Project #1
3	Feb 1		
4	Feb 8	Homework #2	
5	Feb 15	Washington's Birthday Recess	Project #2
6	Feb 22		
7	Feb 29	Homework #3	*Midterm exam 1*
8	Mar 7		Project #3
9	Mar 14	Homework #4	
10	Mar 21	Spring Break	Spring Break
11	Mar 28		
12	Apr 4	Homework #5	
13	Apr 11	*Midterm exam 2*	Project #4
14	Apr 18		
15	Apr 25	Homework #6	
16	May 2		
17	May 9	Final week – No Class	*Final exam*

Select UNLV Academic Policies

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.

Copyright – The University requires all members of the University Community to familiarize themselves with and to follow copyright and fair use requirements. You are individually and solely responsible for violations of copyright and fair use laws. The university will neither protect nor defend you nor assume any responsibility for employee or student violations of fair use laws. Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. Additional information can be found at: http://www.unlv.edu/provost/copyright.

Disability Resource Center (DRC) – The UNLV Disability Resource Center (SSC-A 143, http://drc.unlv.edu/, 702-895-0866) provides resources for students with disabilities. If you feel that you have a disability, please make an appointment with a Disabilities Specialist at the DRC to discuss what options may be available to you.
If you are registered with the UNLV Disability Resource Center, bring your Academic Accommodation Plan from the DRC to me during office hours so that we may work together to develop strategies for implementing the accommodations to meet both your needs and the requirements of the course. Any information you provide is private and will be treated as such. To maintain the confidentiality of your request, please do not approach me before or after class to discuss your accommodation needs.

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=13&navoid=1634

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/.

UNLV Writing Center – One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance. Appointments may be made in person or by calling 702-895-3908. The student's Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: http://writingcenter.unlv.edu/.

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.