

CIT 160/L (Internet Technologies and Lab) – Fall 2016

Bahram Zartoshty
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CLASS DETAILS:

Class Title	Class Title	Room	Class Dates
CIT 160-01 (15906)	INTERNET TECH (Lecture)	MoWe 11:00AM - 11:50AM	Jacaranda 1600
CIT 160-02 (16047)	INTERNET TECH (Lecture)	TuTh 11:00AM - 11:50AM	Jacaranda 1600
CIT 160-03 (16106)	INTERNET TECH (Lecture)	TuTh 1:30PM - 2:20PM	Jacaranda 1538
CIT 160I-01 (15907)	INTERNET TECH LAB (Laboratory)	MoWe 12:00PM - 1:15PM	Jacaranda 1600
CIT 160L-02 (16048)	INTERNET TECH LAB (Laboratory)	TuTh 12:00PM - 1:15PM	Jacaranda 1600
CIT 160L-03 (16107)	INTERNET TECH LAB (Laboratory)	TuTh 2:30PM - 3:45PM	Jacaranda 1538

FINAL EXAM SCHEDULE:

Class	Exam Date	Exam Time	Exam Location
CIT 160-01 (15906)	12/13/2016 (Tuesday)	10:15 - 12:15	Jacaranda 1600
CIT 160-02 (16047)	12/13/2016 (Tuesday)	12:45 - 02:45	Jacaranda 1538
CIT 160-03 (16106)	12/14/2016 (wednesday)	10:15 - 12:15	Jacaranda 1600

OFFICE HOURS: MoTuWeTh 10:00AM - 11:00AM

You may email me (bahram.zartoshty@my.csun.edu) at any time; I will generally respond within 24 hours (during the academic days). Always include your name, course, and CSUN e-mail address in your messages to me; an email address like kissmeqwik@love.com leaves me clueless about who you are!

Contact Info for the Department of Computer Science

Chair: Prof. Richard Covington

Home Page URL: <http://www.csun.edu/compsci>

Telephone: campus extension 3398

Contact Info for Information Services

Office: JD 1112 Telephone: campus extension 7404 or 3919

Contact Info for lab environment

Joshua Flores

Email: cit160.joshua@gmail.com

COURSE MATERIAL

Course material are available on [Google Drive](#)

Grades will be posted on moodle (<http://moodle.csun.edu>)

Recommended (Optional) Textbook:

The Linux Command Line; 2nd Edition; William E. Shotts, Jr.

ISBN: 978-1-59327-389-7

Grading

The lecture and lab are integrated. You will receive the same grade for both the lecture and the lab. Plus and minus grading will be used. Your grade will be weighted as follows:

- Labs: 20%
- Team Lab (putting it all together): 20%
- Exam 1: 20%
- Exam 2: 20%
- Final Exam: 20%

GRADING POLICY: Exam questions will relate to the contents of both the Lectures **and** lab *material discussed in class*. To do well, you should attend class regularly, participate in discussions, do all labs, and take notes. If you miss a class, please arrange with someone to take notes and go over the important points with them.

1. Exams are closed book/closed note
2. Total category grade is calculated based on sum of all grades for the category.
3. The plus/minus grading system will be used: F (<60); D- (≥ 60 & <63); D (≥ 63 & <67); D+ (≥ 67 & <70); C- (≥ 70 & <73); C (≥ 73 & <77); C+ (≥ 77 & <80); B- (≥ 80 & <83); B (≥ 83 & <87); B+ (≥ 87 & <90); A- (≥ 90 & <93); A (93-100).
4. One grade will be given for both Lecture and Lab
5. You are expected to take/complete all projects, and exams, on or before the scheduled dates.

All lab submissions must be done thru CIT160 server. I do not accept late submissions.

7. In fairness to all, I don't give make-up assignments for any missed projects or exams.
8. An incomplete (I) grade is given for genuine medical and other certified emergencies only; it is never given to catch up with missed assignments. Furthermore, to receive an Incomplete grade, you must have successfully completed at least two-thirds of the semester.

Plagiarism in any assignment or cheating in the examinations will result in a grade of F in the entire course.

MAKEUP OR EXTRA CREDIT: No makeup assignments are given to compensate for poor performance in regularly assigned work. Pressure of work, academic workload from other classes, and scheduling extracurricular activities during the semester (e.g., getting married, travel) are unacceptable excuses for missing classes or not submitting the assignments by the due dates. You get no credit by telling me that you already know the stuff; the only way to earn points is by completing the coursework on time. If you know the course material, then please drop this class and enroll in a class that is useful.

Academic Dishonesty

On an exam, you are expected to submit only your own work. On a programming project, it is permissible to discuss solution approaches in a general sense with other students. But when submitting a program for a grade, the program must represent your own work. It cannot be a copy of another student's program, even if you worked in a group with that student. **Penalties for academic dishonesty on a single exam or programming project may result in a grade of "F" for the entire course.** If you have any doubts about what is considered dishonest, please ask the instructors for guidance before taking such a serious risk. In general, **full disclosure is the best policy** on any submission. In other words, if a friend helped you to complete a project, **state this fact in writing at the beginning of the submission.** Such a submission may not earn full points, however.

CLASS AND LAB ETIQUETTE: *Please silence all pagers, cell phones, and electronic devices before entering the classroom.* Food and drinks are not allowed in the labs. Please note that

there is a surveillance camera that works 24/7 in the labs. When you are in the class or lab, I expect you to work on assignments, not surf the web, play games or engage in other such non-course related activities. The lab computers have sound cards, but no speakers. To listen to audio content you will need to use head phones connected to the computer's audio output jack. The CSUN computers are meant to be used for academic purposes only. Fair use policies can be found at http://www-admn.csun.edu/vp/policies/500_itr/500_10.htm

SUBMITTING WORK

- Most Lab project will be submitted via CIT160 server
- All assignments will be in hardcopy format, when asked for, in class, not in my office or in the Computer Science Department office.
- Email submissions will not be accepted.

Course Outline (List of Topics)

1. Introduction and Overview
 - a. Big Picture: Application Layer
 - i. Computer Networks
 - ii. DNS, Electronic Mail, World Wide Web
 - b. Getting familiar with the shell
2. Introduction to files
 - a. Shell commands for processing files (more in depth with |, <, >)
 - b. Line Editing and Vi Editor
 - c. Type of files (test -f, -d, -S)
 - d. Intro to Shell Variables \$?, etc.)
3. Authentication, login Process, Processes, and File permissions
 - a. Remote Login, Process, and Authentication
 - b. Boot strapping your Environment
 - i. Intro to the PATH variable
 - c. /etc/{passwd, groups, shadow}, ssh, login process
 - d. Simple commands on files
 - e. The Vi editor
4. Programming in the Shell
 - a. Focus on the control structures, etc.
 - b. Examples of starting various system
5. Filesystems
 - a. Conventions

- b. Mapping drives, export filesystems
- 6. DNS, coupled with FQDN and IP naming
- 7. Email
- 8. OSI Model
- 9. Web revisited and the HTTP/s Protocol
 - a. HTML (and CSS) [bash/cgi programming]
 - b. JavaScript