

CS 228: Linux and Tools
Spring 2018
MW 10:30-11:45

Instructor Information

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Office Hours: Monday 1:00-2:00, Thursday 10:30-11:30

Course Website: <http://isoptera.lcsc.edu/~seth/cs228>

Course Goals

At the end of the course, students should understand:

- How to operate a command-line interface.
- How the Linux operating system is structured.
- The basics of scripting in Python
- At a basic level, operating systems, computer networks, and computer programming.

Textbook

“The Linux Command Line”, William Shotts, second edition. Available from <http://linuxcommand.org>

Grading

Your grade will be calculated based on the following items:

Item	Percentage of grade
Midterm	20%
Final	30%
Homework	40% total
Quiz	10% total

Grades will be assigned according to a standard curve, that is:

A: 90% +

B: 80%- 90%

C: 70%- 80%

D: 60%- 70%

F: less than 60%

Use of + or - grades (such as B+ or A-) and curves will be at the instructor’s discretion.

Deadlines and late work

Late work will not be accepted. However, partial credit will be given for partially-completed work. It is better to turn in an unfinished assignment for partial credit than to not turn in something on time and receive a 0.

Attendance

Attendance will not be taken in this class except as required for financial aid purposes. However, all material presented during lecture is “fair game” for the midterm and final, and some of this material may not be in the book as well. There is also the potential for quizzes in class, which cannot be made up. Therefore I recommend that you always attend class.

Academic Dishonesty

Cheating on any assignment will result in failing the class. Some things which constitute cheating in this class are:

- Copying another student's homework
- Turning in homework created by another student
- Reading another student's answers on a test
- Sharing all or part of your completed homework with another student before the assignment is due

Appropriate collaboration on homework involves sharing ideas with other students only, not source code! Although it is often tempting to help another student by showing them how your completed program, script, or command works, this is not helpful to their learning. However, this does not mean you cannot collaborate with other students on homework. Sharing of ideas, principles, and algorithms is permitted and encouraged.

Tentative Course Calendar

CS228 Linux and Tools Spring 2018 Calendar		
Week	Course Content	Relevant Chapters
Jan 15	Introduction to Linux, file tree, terminals, SSH	1-3
Jan 22	Input redirection, pipes, more command line usage	4-6
Jan 29	Permissions, more advanced shell usage	7-9
Feb 5	Variables Processes and process management, OS structure	10 and 11
Feb 12	Package Management, Installing Programs, Software Development	14 and 22
Feb 19	President's Day Monday, Networking	16
Feb 26	Finding things, archiving, backups	17, 18
Mar 5	Regular Expressions and Text Processing	19, 20
Mar 12	Midterm Exam and Answers	
Mar 19	Scripting with Python	24
Mar 26	Spring Break! No class all week	
Apr 2	Accomplishing tasks with Scripting and Python	
Apr 9	UNIX Programming and Tools	
Apr 16	Creating a Shell	
Apr 23	Web Development	
Apr 30	Topics of Interest	
May 7	Final Exam: Monday, May 7, at 10:30	