University of Washington CSE 390 A: System and Software Tools, Course Syllabus, Spring 2010

TA/Lecturer

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Instructor of Record

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Josh Goodwin will give the lecture each week and is the primary point of contact when you have questions or need help.

Course Overview

In this course you will learn about topics such as:

- basics of navigating a Unix/Linux environment; setting up a basic Unix/Linux system
- using a Unix command-line shell
- Unix file system; file and directory management; processes and process management
- permissions, groups, and users
- pipes and redirection
- connecting to remote servers and using multi-user shared Unix systems
- regular expressions and related tools
- string and text processing basics: filtering, substituting, etc.
- compiling and executing programs from a command line; Makefile basics
- version control basics
- bash shell scripting; basics of scripting languages such as Python, Ruby, or Lua (optional)

You will master none of these skills, but you will gain familiarity with them. An important goal of the course is to become better able to **teach yourself** new concepts through your own reading, searching, and asking questions. This is an important skill expected of all CSE majors, especially important since lecture time here is limited to one hour per week.

Lecture Time

Tue 1:30 PM - 2:20 PM, EEB 125

Course Web Site

http://www.cs.washington.edu/390a/

All resources from class will be posted here. Check the web site daily for any important course-related announcements.

Textbooks

Barrett, D. Linux Pocket Guide. ISBN 0596006284. Optional.

No assignments or required readings will be given directly from the textbook, so you may choose not to purchase it if you like. However, it can make a useful reference for looking things up on homework assignments. Also, the final exam in this course will be open-book, so it may be advantageous to own the books to bring as a reference during the exam.

Computer Access and Software

The department operates computer labs in the CSE basement (rooms 002, 006, and 022). The recommended software for the course is the Linux operating system (Ubuntu or Fedora distributions), and related utilities such as bash, make, cvs, svn, and other standard Unix commands.

The course web site contains links to download this software free of charge if you want to work at home.

"Grading" (earning credit in the course)

- weekly homework assignments
- final exam (Friday, June 11, 2010, 2:30 4:20pm, in class)

This is a Credit / No Credit (CR/NC) course; you either pass or fail. Any student who completes **at least 7** of the homework assignments adequately and earns **a passing mark on the final exam** will be considered to have "passed" the course. Our intention is that every student who makes a legitimate effort to learn and complete the material will pass the course. The class is intended to be **low-stress** and geared toward learning and exploration of concepts.

Exams

The final exam is open-book, open-notes. You may bring any written materials, such as textbooks, printed handouts, homework assignments, or programs. No electronic devices may be used, including calculators.

The final exam is intended to be easier than final exams in multi-credit, graded CSE courses. Our intention is that any reasonable student who has attended the majority of lectures and completed the required number of assignments will be able to pass the final exam and earn credit for the course.

Make-up exams will not be given except in case of a serious emergency. If you must miss the exam, even if you are sick or injured, you must contact the instructor *before* the exam (or arrange for someone to do so). You must show evidence that you are physically unable to take the exam, such as a doctor's note specifically mentioning this exam, before the exam. No make-ups will be granted for personal reasons such as travel, personal hardship, to ease your exam week schedule, or leisure. It is unlikely that a student will be given permission to take an exam early for any reason.

Homework and Lateness

Homework consists of weekly individual electronic assignments submitted from the course web site. A student will receive credit for an assignment if it is deemed by the grader to be completed at a reasonable level of effort and quality. A submission need not be 100% correct, though it must reflect serious effort and must be nearly correct to receive credit.

Each assignment will have a specific due date in its spec and on the web site. Assignments will not be accepted late. If you do not complete a given assignment on time, you will not receive credit for it. But recall that you do not need to turn in every assignment to receive credit for the course. Extensions will not be given on assignments for any reason.

Academic Integrity Policy

This class has a looser collaboration policy than other courses such as CSE 143. The work you submit for the weekly assignments should be your own, but we encourage you to talk to and work with other students along the way. You can talk at greater length and in more detail than you might have in CSE 142/143. You may discuss general ideas of how to approach an assignment, and you may also talk about some specific details of commands or syntax to use ("try using the tail command on #3" or "I used a for-each loop over the directories"). You should document any help you receive from another student or other person at the top of your assignment file(s), listing the person's name(s) and how much / what kind of help they gave you. If you provided significant help to another student or worked closely with another student, you should also document this at the top of your assignment file(s).

Our policy does still have a few **restrictions** on collaboration:

- You may not show another student your assignment solution, nor look at his/her solution, in whole or in part.
- You may not write an assignment for another person nor have someone else write your solution for you.
- You may not provide another person with every detail of how to solve a given problem or assignment

An example of the line between appropriate and inappropriate help would be: It's perfectly fine for a friend to sit with you and show basics about how to use a Linux terminal, or even to show you that the ls command is helpful to solve problem #4, and how to find help about the ls command in the Linux manual (man) pages. But it would not be appropriate for one person to tell another, "I typed exactly 'ls -laR * | grep example | sort -R' for Problem #4."

As a sanity check, we will run similarity detection software a few times per quarter over all student assignments, though we consider it unlikely that students will be accused of violating our policy. A student who violates the policy might be offered zero credit for that assignment. But once again: This course allows more collaboration than others, and in general **we encourage you and your classmates to help each other**. The end goal is to learn this material, and this course does not have a large number of TAs or office hours to provide help, so we will rely on students to help each other out along the way. Please contact the instructor if you are unsure whether a particular behavior falls within our policy.