Introduction

This class is CSE 80: Unix Lab.

The class meets on Tuesdays and Thursdays from 11:30am to 12:50pm at Center 212, with a discussion section from 12:00pm to 12:50pm on Fridays in HSS 2250.

Instructors and Office Hours

The instructor for this class is Bennet Yee. I just go by "Bennet". My official office hours are in AP&M 5414, Tuesdays and Thursdays, 2pm to 3pm, but feel free to drop by at other times. If you come by outside of the official times without first making an appointment, I reserve the right to ask you to come back later if I am busy, but I will make an effort to accomodate you.

The TA for this course is Matt Hohlfeld. Matt's office hours are yet TBA. Updates to our office hours will be posted to the class Web page.

Class Content

In this class, you will learn the Unix operating system. The main thrust of the course will be understanding Unix programming at the level of shell script, covering concepts such as processes, the filesystem, standard Unix tools such as the shell (POSIX shell; we'll be using bash), sed, awk, make, RCS, etc. An important aspect of the Unix "tools" style of programming is how these tools are *composed* using shell syntax. We'll also cover in some detail how Unix-style program composition is implemented (I/O redirection, backquoting, pipes, etc), covering the Unix application-program-to-kernel interface and how system calls are used to provide the desired program composition abstraction.

Textbook, Handouts, Class Web Pages

The text for this course is *A Practical Guide to the Unix System, SunOS and BSD* by Sobell. This book is one of the better ones available, but the Unix version that we will be using is Solaris, the successor to SunOS, and some details will differ. There isn't a good Solaris book available yet, and you will need to consult the on-line manual pages for these differences. You are not required to attend lecture or discussion section — no attendance will be taken. You are, however, responsible for **all** of the material covered, which will be broader than what's in the book and include material not found there.

In addition to class handouts, you are required to read the class Web page at

`http://www-cse.ucsd.edu/classes/wi97/cse80/`

Aside from this handout, I will only make electronic handouts via the class web pages to avoid killing trees and to permit better interaction, since you'll be able to directly use the on-line handouts on the computer. Note that the class Web pages are **not** a substitute for note-taking. These pages only summarize the lectures and give addition, supplemental information not directly covered by the lectures, and you should definitely take your own notes. (Studies have shown that information retention is greatly enhanced when students take notes, even if the notes aren't read after they are taken.)

You are encouraged to ask questions during lecture / discussion and keep your brains engaged.

Grading

This course will **not** be graded on a standard bell curve, nor on strict point cut-offs. If all of you learn the material, I will give everybody "A"s; conversely, if none of you learn the material, I will give everybody "F"s. Your grade will be computed from your marks in homework, midterm, and final as follows:

Homework	40%
Midterm	30%
Final	30%

There will be approximately 6 homework assignments, not all equally weighted. Homework hand-in will be done electronically by the `turnin` program. If you are unfamiliar with it, type in `help instruct` at your shell prompt.

Late Turnins

Late homework are accepted, but you will lose 10% of the grade for each day it is late. An assignment may be late by at most 2 calendar days, after which you will receive a zero. The system timestamp is used to determine whether an assignment is late — don't run the `turnin` program on the last minute, since if it is slow in timestamping your file (or the system clock is fast compared to your watch) your assignment could be counted as late.

Collaboration

Unless *explicitly* stated, all of the work must be done alone. You may discuss the concepts in the abstract, but should **never** share code that has to do with homework assignments. When in doubt, don't do it (or ask me first).

While in the "real world" you will likely work collaboratively in teams, you are still learning the basics. If you do not learn the basics now, you will not be an effective team member in the future. You will learn teamwork and team management techniques in classes such as Software Engineering, or in other, upper-division courses where there are large projects.

Cheating

If two or more handed in assignments are determined to be copied from each other when I did not ask you to collaborate (or you otherwise inappropriately obtained outside help on an assignment), you will receive an F grade for the course. *It is your responsibility to prevent others from copying your work.* See the General Catalog section on UCSD Policy on Integrity of Scholarship.