COP4342 Unix Tools
General Information
Fall 2012

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Office Hours: 1:00pm-2:00pm, 2:30pm-3:00pm Tuesday, 1:00pm-2:30pm Thursday

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Office Hours: 11:00am-12:30pm Tuesday, Thursday

Prerequisites: COP3330 (Object Oriented Programming)


Class Homepage: The class home page is at http://www.cs.fsu.edu/~whalley/cop4342.html. The page will contain a variety of information, which will include the syllabus, schedule, slides, and assignments.

Slides: There is a lot of material to cover in this class. Lecturing from slides will allow me to cover the material at a more rapid pace. The slides I have developed for the class will be made available in pdf from the class homepage prior to their presentation.

Assignments: You will be assigned numerous assignments that will include projects requiring writing shell scripts, Perl code, and other program development tools. There will likely be at least ten programming projects and there may be more. These projects are to be accomplished individually by each student.

Objectives:

1. To develop shell scripts (e.g. access parameters on the command line, use of shell variables, testing for various conditions, invoking Unix utilities).
2. To use various Unix utilities (e.g. grep, wc, awk, sort, sed).
3. To set up your environment (e.g. including environment variables, aliases, setup files).
4. To program in Perl (e.g. variables, I/O, control structures, arrays, hashes).
5. To use various program development tools (e.g. makefiles, advanced editor features, a source level debugger, a configuration management system).
6. To use document generation tools (e.g. a text formatter, a picture editor, an image editor, a spell checker).
7. To use various file management tools (e.g. gzip, tar, find).
8. To use various process control tools (e.g. ps, kill, at, cron).

Grading: There will be three exams (60% of total) and various projects (40% of total). Keep all graded material to provide evidence of grades. A final comprehensive exam may be given in place of the third exam.

Attendance and Punctuality: You are responsible for all material presented in class. Exams and due dates will be scheduled in advance. A grade of zero will be recorded for missed exams and late
Assignments unless prior arrangements are made. Assignments turned in after the due date, but by
the beginning of the next scheduled class will be penalized 10%. Assignments will not be accepted
that are more than one class period late.

Cheating: Students are encouraged to discuss programs in general. Copying another’s code or writing
code for someone else is cheating. Keep listings to provide evidence of creative development.

Class Behavior: Students are expected to refrain from carrying on side conversations or other distracting
behavior in class, and that violations of this policy will result in expulsion from the classroom.

Academic Honor Policy: The Florida State University Academic Honor Policy outlines the University’s
expectations for the integrity of students’ academic work, the procedures for resolving alleged violations of
those expectations, and the rights and responsibilities of students and faculty members throughout the
process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge
to "... be honest and truthful and ... [to] strive for personal and institutional integrity at Florida State
University." Florida State University Academic Honor Policy, found at http://dof.fsu.edu/honorpolicy.htm.

Americans with Disabilities Act: Students with disabilities needing academic accommodation should: (1)
register with and provide documentation to the Student Disability Resource Center; and (2) bring a letter to
the instructor indicating the need for accommodation and what type. This should be done during the first
week of class. This syllabus and other class materials are available in alternative format upon request. For
more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center
874 Tradition Way
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)
sdrc@admin.fsu.edu
http://www.disabilitycenter.fsu.edu/