

COP4342 Unix Tools
General Information
Spring 2025

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Office Hours: 9:30am-11am Monday and Wednesday

Prerequisites: COP3330 (Object Oriented Programming)

Texts: M. Sobell and M. Helmke. *A Practical Guide to Linux: Commands, Editors, and Shell Programming, Fourth Edition.*

Zoom Meeting: I will hold meetings with students (either within or outside of office hours) either in person or remotely over zoom at <https://fsu.zoom.us/j/91417108443>. Likewise, the TA will also hold meetings with students (within office hours) either in person or remotely over zoom also at <https://fsu.zoom.us/j/91417108443>. We will open a zoom session if you contact us through e-mail or call me on my office phone.

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. Much of the information on the class home page will also appear in Canvas. However, the class page does not require that you log in each time you access it.

Course Objectives: A student who has completed this course with a passing grade should be able to:

- (1) Develop simple Unix Shell scripts that utilize common Unix utilities to solve general problems.
- (2) Develop Perl programs to solve simple programming problems.
- (3) Utilize programming tools that include makefiles, lexical analyzers, syntax highlighting editors, and source level debuggers.
- (4) Utilize documentation tools that include a text formatter and configuration management systems.
- (5) Utilize file management tools that perform compression of files, collect files, searches for files, dumps file contents, and transfers files across systems.
- (6) Utilize process control tools to manage processes.

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 and Canvas prior to their presentation.

Assignments: You will be assigned numerous assignments that will include projects requiring writing shell scripts that includes utilizing some Unix utilities, writing Perl programs, utilizing program development tools, and utilizing a text formatter to prepare a document. These projects are to be accomplished individually by each student.

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://fda.fsu.edu/Academics/Academic-Honor-Policy>.

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/>

Syllabus Change Policy: Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.