

COMP 4272-6272: System Admin and Unix Programming – Fall 2017

Bill Baggett, PhD

Contact Information:

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The best way to get in touch with me is through email – I will try to respond within 24 hours.

Office Hours:

F 10:00 am – 12:00 pm Dunn Hall 390

Lecture Meeting Times/Locations:

TR 2:40 pm – 4:05 pm Dunn Hall 119

Course Description:

COMP 4272-6272 - System Admin and Unix Prog (3) Fundamentals of UNIX and operating systems principles; principles and practices of systems administration and management; network file systems; account management; OS installation; startup and shutdown, booting, backup, restore; system administration tools; web administration; duties and responsibilities of a system administrator. **PREREQUISITE:** COMP 4270, or permission of instructor.

The content and syllabus are subject to adjustment during the semester.

Required Textbook:

Michael Palmer - Guide to UNIX Using Linux, fourth edition. Course Technology, CENGAGE Learning, (2008), ISBN-10: 1-4188-3723-7, ISBN-13: 978-1-4188-3723-5.

Evaluation:

1. Midterm – Tentatively on Thursday, October 12th: 25%
2. Assignments: 20%
3. Project: 20%
4. Final Exam – Tuesday, December 12th, 1:00 pm -- 3:00pm: 25%
5. Class participation: 10%

Grading Scale: Letter grades will be determined as follows:

A+: 96% and above; **A**: 90-95%
B+: 87-89%; **B**: 81-86%; **B-**: 79-80%
C+: 77-78%; **C**: 71-76%; **C-**: 69-70%
D+: 67-68%; **D**: 60-66%
F: Below 60%

Email:

Please check your University of Memphis email account at least once a day, as that is my primary means of communicating with you outside of class.

Late/Makeup Policy:

All assignments are expected to be completed and turned in on schedule. Due dates will be clearly indicated for each assignment. Late assignments are NOT accepted except in extreme circumstances. Likewise, makeup exams will be given only under extreme circumstances. If you feel that your circumstances warrant a late work submission or a makeup quiz/exam, get in touch with me as soon as possible. Be prepared to show some kind of documented proof of your situation.

Plagiarism/Cheating Policy:

An essential part of learning how to program is getting plenty of practice with it yourself. As such, all assignments for this class (unless specifically indicated otherwise) are expected to be individual efforts. If I determine that you have copied something directly from a book, the Internet, or some other source, you will receive a failing grade on the assignment and (at my discretion) a failing grade in the course. If I determine that you have copied another student's assignment, this will happen to both you and the person from whom you copied. The incident may also be forwarded to the Office of Student Conduct for further disciplinary action. Please don't put me in this situation.

Getting Help:

Although I expect your work for this class to be done individually, I encourage you to seek help if you get stuck:

- Come talk to me! I'm very willing to sit down and try to provide hints without giving away the solution.
- The Computer Science Learning Center (Dunn Hall 208) will be open throughout the semester. Hours will be posted on the door. The hours for this semester should also be posted online soon. You can find them by going to memphis.edu/cs/ and clicking on "Current Students" and then clicking on "CS Learning Center." The lab will be staffed by friendly, knowledgeable computer science students whom you can ask for help.

Student Disabilities:

If you have a disability that may require assistance or accommodations, or if you have any questions related to any accommodation for testing, note taking, reading, etc., please speak with me as soon as possible. You must contact the Student Disability Services Office (678-2880) to officially request such accommodations / services.

Topics

1. Course Overview and Introduction
2. Exploring the UNIX/Linux File Systems and File Security
3. Mastering Editors
4. File Processing
5. Advanced File Processing
6. Introduction to Shell Script Programming
7. Advanced Shell Programming
8. Exploring the Linux/Unix Utilities
9. Programming in Linux/Unix
10. The X Window System
11. How to Access a Unix/Linux Operating System