

GEORGIA COLLEGE & STATE UNIVERSITY COURSE SYLLABUS

CBIS 4225 – System Administration

Semester:	Spring	Year:	2010
Course Title:	System Administration	Course #:	CBIS 4225
Instructor:	Dr. Bryan Marshall	Office:	ATK 305 (Inside ATK 306)
E-Mail:	bryan.marshall@gcsu.edu	Office Hours:	MW 8:45 – 9:15 am
Phone:	478-445-2137		MW 11:45 – 2:00 pm Class
Time:	W 5:30 – 8:30 p.m.		or by appointment
Classroom:	ATK 307		

Catalog Description

This course introduces students to the knowledge and skills needed to manage Linux systems, acquiring skills and understanding of command line functions, file systems, users and groups, bash shell, process management, text editors, network applications, searching and organizing data, graphical applications, user administration, network configurations, Apache Web Server, the Samba File Server, the Sendmail Mail Transport Agent, the Network File System (NFS).

Course Objectives

Each student will:

1. Install Linux and Use the Linux Desktop
2. Locate and Use Help Resources in the Linux system
3. Update the System Software Using Packaging Software
4. Manage Users, Directories, and Files
5. Manage a Server using only the Command Line
6. Edit Text Files and Bash Commands
7. Administer a Web Server including PHP and MySQL

Required Text

Ubuntu Unleashed, 2008 Edition, Andrew Hudson & Paul Hudson (2009) ISBN13, **978-0-672-32993-7**

Fire Drill Procedures

In the event of a fire signal students will exit the building in a quick and orderly manner through the nearest hallway exit. Learn the floor plan and exits of this building. Do not use elevators. Crawl on the floor if you encounter heavy smoke. Assist disabled persons and others if possible without endangering your own life. Assemble for a head count.

Requests for Modifications

Any student requiring instructional modifications due to a documented disability should make an appointment to meet with the instructor as soon as possible. An official letter from GCSU documenting the disability will be expected in order to receive accommodations.

Grading

10 Quizzes	30%
Midterm Exam	20%
Final Exam	25%
Final Project	25%

WebCT

The class is available on WebCT. Students are held responsible for class information contained in WebCT.

Withdrawals

The last day for withdrawal without academic penalty is **March 8th**.

Attendance Policy

Class attendance is extremely important to succeed in this course. Attendance is mandatory, meaning that you are expected to attend each class period. However, the professor understands that there will be times when personal issues are unavoidable and take priority. Therefore, each student will be allowed three (3) excused absences without penalty. Since students are allowed three excused absences, there is no need to contact the professor to explain an absence. If you are absent, it is your responsibility to obtain missed material from your peers, so establish contact with other students in the class immediately.

If for any reason more than three absences occur during the course of the semester, the student will receive a negative adjustment of one full letter grade. This means that if you have three excused absences from a physician and one unexcused absence you will receive a full letter grade reduction.

Attendance will be taken on random days and will be influenced by the “prisoner’s dilemma” game theory approach. This means that I am much more likely to take attendance when there are fewer students in attendance, and much less likely to take attendance if all students are present. Classes will start on time and you are expected to be at your seat at the beginning of class. You are in attendance when your name is called. If you are not in your seat when attendance is taken, you will not be given attendance for that day. If you need to leave class early, which I don’t recommend, you are required to notify me at the beginning of class. Failure to do so will result in the loss of attendance for that day.

THE FOLLOWING COURSE OUTLINE PROVIDES A GENERAL PLAN FOR THE COURSE. DEVIATIONS MAY BE NECESSARY.

Date	Chapters	Assignments
1/13	Installation and Configuration Installation and Configuration	Chapter 1: Installing Ubuntu Chapter 2: Post Installation Configuration
1/20	Installation and Configuration (Quiz 1) Installation and Configuration	Chapter 3: Working with Gnome Chapter 4: Command Line Quick start
1/27	Desktop Ubuntu (Quiz 2) Desktop Ubuntu	Chapter 5: On the Internet Chapter 6: Productivity Applications
2/3	System Administration	Chapter 10: Managing Users
2/10	System Administration (Quiz 3) System Administration	Chapter 11: Automating Tasks Chapter 12: System Monitoring Tools
2/17	System Administration (Quiz 4) System Administration	Chapter 13: Backing Up Chapter 14: Networking
2/24	System Administration System Administration	Chapter 15: Remote Access with SSH and Telnet
3/3	Midterm Exam (Chapter 1-6 and 10-15)	200 points
3/10	Ubuntu as a Server Ubuntu as a Server	Chapter 16: File and Print
3/17	Ubuntu as a Server (Quiz 5) Ubuntu as a Server	Chapter 17: Apache Web Server Management Chapter 18: Remote File Server
3/22 – 3/24 Spring Break		
3/31	Ubuntu as a Server (Quiz 6) Ubuntu as a Server	Chapter 19: Handling Email Chapter 20: Proxying and Reverse Proxying
4/7	Ubuntu as a Server (Quiz 7) Ubuntu as a Server	Chapter 21: Administering Database Services Chapter 22: LDAP
4/14	Programming Linux (Quiz 8) Programming Linux	Chapter 25: Writing PHP Scripts
4/21	Ubuntu Housekeeping (Quiz 9) Ubuntu Housekeeping	Chapter 28: Securing Your Machines Chapter 29: Performance Tuning
4/28	Ubuntu Housekeeping (Quiz 10) Ubuntu Housekeeping	Chapter 30: Command Line Masterclass Chapter 31: Managing Software
5/3	Ubuntu Housekeeping	Chapter 32: Kernel and Module Management
5/5	Final Exam @ 5:30 pm (Comprehensive)	Final Projects Due 250 points