CSCE 4930.001, Introduction to System Administration

Instructor: CR Chevli Spring `2015
Office: Discover Park E245C by Appointment only
Office Hours: TTh (5:30pm) Meeting Place: DP D202
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Current Catalog Description:

4930. Topics in Computer Science and Engineering. 3 hours. Topics in Computer Science or Computer Engineering. 4930.001: Introduction to System Administration.

Textbook:

The course material is not covered by any single book. However, the following book(s) are recommended:

UNIX and Linux System Administration Handbook (4th Edition) by Evi Nemeth (Author), Garth Snyder (Author), Trent R. Hein (Author), Ben Whaley (Author)

References:

1. Essential System Administration, Third Edition by Æleen Frisch,
2. Ubuntu 13.04 Server: Administration and Reference
3. Various Microsoft, Apple and Linux online resources

Course Outcomes:

- Identify and analyze user needs
- To structure user requirements in the selection, creation, evaluation and administration of computer-based systems.
- Basic understanding/principles of computer system administration.
- Basic understanding/principles of computer system maintenance
- Provide an ability to effectively integrate IT-based solutions into the user environment

Prerequisites by Topic:

CSCE 2110

Major Topics Covered in the Course:

Week of	Topic	Comments: Lecture# (L#) Chapter# (C#)
1/20/15	Introduction to System Administration, System Requirement Analysis and Development, OS Review & Details	L1, L2, C1
1/27/15	Virtual Machines, Boot & Shutdown, File Systems, Storage	L3, L4, C24,C3,C6
2/3/15	Disk Partitions & LVM, RAID and Access Control	L5, L6, C8,C4,C5
2/10/15	Process Management & Permissions	L7, L8,C9,C12,C13
2/17/15	Software Installation-Packages	L9, L10, C13, Lab1
2/24/15	Automating Administrative Tasks, Cron	L11, L12, Lab2, C2
3/3/15	Test 1 (3/5/15 – 5:30–6:50)	L13, C7, Test 1
3/10/15	Backups & Syslog	L14, L15, C10, C11
3/16-22/15	Spring Break	
3/24/15	Introduction to Networks (Hardware)	L16, L17, C16
3/31/15	Introduction to Networks (TCP/IP, Routing)	L18, L19, C14
4/7/15	Network Services (DNS/DHCP)	L20, L21, C15,C17
4/14/15	Network Components & Management	L22, L23, C17, C21
4/21/15	Network Services NFSV4, File Sharing & Security (Firewalls)	L24, L25, C18,C19,C22
4/28/15	Project Pres. Test 2 (4/30/15 – 5:30–6:50)	L26, Project Pres., Test 2,
5/5/15	Popular Services (SMTP,HTTP)	L27, L28, C20,C23

GRADING SCHEME

12% -- Quiz
40% -- Homework
20% -- Tests
12% -- Paper
16% -- Final Project Paper

COURSE POLICIES

Attendance for this course is mandatory. I may be covering topics not in the book. It is at the best interest of students to attend all classes. It is student's responsibility to contact other students for notes/announcements for the missed classes.

- ***ABSOLUTELY, NO LATE homework/projects/term paper graded.***
- All homework/projects/term paper and experimental reports be turned in at the START of class on the date due. DO NOT email your homework/project report to me unless an exception is granted for an assignment.
- All students will be trusted to pursue their academic careers with honesty and integrity. Academic dishonesty includes, but not limited to, cheating on a test or

other course work, plagiarism, unauthorized collaboration with other persons. Students found guilty of dishonesty will be subject to penalties that may include suspension from the university.

- Instructor reserves the right to modify course policies, the course contents and the order in which the topics are covered.

Disabilities Accommodation:

The University of North Texas complies with Section 504 of the 1973 Rehabilitation Act and with the Americans with Disabilities Act of 1990. The University of North Texas provides academic adjustments and auxiliary aids to individuals with disabilities, as defined under the law. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring accommodation, please see the instructor and/or contact the Office of Disability Accommodation at 940-565-4323 during the first week of class.