

Saddleback College
Business Science Division
Course Syllabus
CIMN 240 – UNIX/LINUX SYS ADMIN

CIMN 240 - 10/13/2015 to 12/15/2015

Instructor: Jonathan Webber
Email: jwebber@saddleback.edu
Ticket No: 20170

Semester: Fall 2015
Time & Day: 7:00-9:50p Tue
Room: BGS 255
<http://saddleback.blackboard.com>

COURSE DESCRIPTION:

An in-depth look at administrative and maintenance tasks on a UNIX/Linux-based network. Includes installation, hardware configuration, creating/maintaining the file system, boot process, user account management, workstation integration, printing subsystems, and troubleshooting.

COURSE OBJECTIVES:

Upon completion of this course, the student will be able to:

1. Explain the essential hardware components of a computer system.
2. Identify the major elements of a computer operating system and explain their functions.
3. Recognize and use the various graphical features to navigate and manipulate a GUI desktop.
4. Configure the Unix/Linux operating system environment.
5. Integrate a workstation with an existing network running common network services.
6. Create and manage user and group accounts.
7. Install, share and manage file systems and resources.
8. Configure and control the boot process.
9. Describe, explain, access and secure network resources.
10. Prepare the installation, configuration and support of printers and printer resources.
11. Configure, compile and install the Unix/Linux kernel.
12. Optimize system performance including basic troubleshooting.
13. Identify and describe various methodologies used to organize information on disks and disk maintenance.
14. Explain the concepts of connectivity, the Internet and the basics of using a local area network.

STUDENT RESOURCES: *Unix and Linux System Administration 4th Ed*; Nemeth, Snyder, Hein, and Whaley; Prentice Hall Publishing; ISBN #978-0-13-148005-6 or 0-13-148005-7. & a 4GB USB Flash drive with Ubuntu.

ASSIGNMENTS AND TESTS:

Reading – Students are to read assigned chapters and relevant reading in preparation for each class discussion, quiz or exam. You should have your textbook with you during class and to complete PC based assignments.

Makeup exams are given by prior arrangement only. See or contact your professor *before* the date of a midterm or final exam to inquire about alternative arrangements.

POLICIES AND PROCEDURES: It is the student's responsibility to officially withdraw from a course, through Admissions and Records. Students should note the college's schedule of last day to drop courses. Uncompleted course work may result in a grade of "F".

Homework Submissions – Homework is submitted via the blackboard.com on-line assignment submission process. You can receive home assistance at Saddleback Lab located at BGS-248. Hours vary but it is open 6 days (even Saturday) a week and until 10 PM Mondays – Thursdays.

Communication – Since this is an computer class, all Communication is via e-mail to registered students to you

saddleback e-mail account. If you wish, under MySite you can set up your saddleback email account to automatically forward to a home, a work or more than one other e-mail account(s).

Late Homework will be accepted for 1 weeks after each due date, but at a diminished score. Grades will be posted on socccd.Blackboard.com during the semester for your review. All homework is to be turned using socccd.blackboard.com digital assignment drop-box

Academic Dishonesty – According to official Policies and Procedures of Saddleback College, “*Cheating or plagiarism in connection with an academic program*” is prohibited and students “*may be disciplined...for the following cause*” for a single infraction. In the rare instance that a student in this course cheats or plagiarizes materials, that student will receive a grade of “F” for the course. In the event the activity is particularly serious, the professor reserves the right to pursue expulsion of the student from the college.

Grading: Total Points offered may change, but grade will be based on percentage of totals

	Points	
Participation	45 (5 points per class)	A = 90% - 100% (490 or more points)
Ch Homework	255 (15-40 points each assignment)	B = 80% - 89% (435 or more points)
2 Quizzes	100 (50 points each)	C = 70% - 79% (380 or more points)
Final Exam	100	D = 60% - 69% (325 or more points)
	550	F = Below 60% (324 or fewer points)

Extra Credit 25 Submit Completed Project essay file by 12/10/2015

COURSE SCHEDULE:

Date	Tests	Reading assignments	Topic
10/13/2015		Chap 1	Intro, Ubuntu & Red Hat, System Admin
10/20/2015		Chap 2, 6	Scripting and the Shell & File System
10/27/2015		Chap 9, 10, 31	Processes, backups, Serial devices
11/3/2015	Quiz #1 (1,2,6,9,10)	Chap 7, 14	Users, TCI/IP networking
11/10/2015		Chap Fin 14, 15, Start 20	Routing, eMail
11/17/2015		Chap Fin 20, 22	Security
11/24/2015		Chap 17	DNS
12/1/2015	Quiz #2 (7-22)	Chap 18	Network file system
12/8/2015		Chap 11	Syslog & log files
12/15/2015	FINAL EXAM CIMN 240, 7:30 p.m.		(you can start early – when exam is available)