

Saddleback College
Business Science Division

Course Syllabus
CIMN 230 Computer Operating Systems: Unix/Linux

Instructor:	Jeff Dorsz	<i>1/18/16 through 3/20/16</i>
Phone:	(949) 582-4308	Semester: Spring 2016
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Recommended Preparation: CIM 171

Course Description:

Provides an overview of operating system concepts. Presents implementation through the use of UNIX/Linux commands. Class studies operating system concepts such as file systems, variables, and permissions. Students will use a computer system to execute problem-solving exercises using UNIX/Linux commands, both in the shell and in the GUI (Graphical User Interface). Students will learn and use commands that are necessary for maintaining a UNIX/Linux workstation including file and directory management commands, editors, pipes, filters and redirection commands, permissions, processes and elementary shell scripting.

This course meets the requirements set forth in the accessibility checklist and universal design grid provided by Special Services. The Web pages, video presentations, textbooks and class materials used in this course are accessible to students with disabilities. If you have questions on how to make accommodations, please contact Mike Sauter, the Alternate Media Specialist.

Course Objectives:

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

1. Describe the concepts and terminology relating to the operating system.
2. Summarize features of file systems and command syntax.
3. Identify and evaluate available help.
4. Select and apply commands to navigate the directory structure and manipulate files and directories.
5. Create and print text files using an editor.
6. Describe the concepts and terminology relating pipes, filters and redirection.
7. Apply and use commands that relate to pipes, filters and redirection.
8. Identify types of users and their rights.
9. Analyze and use file and directory permissions.
10. Describe the purpose and function of symbolic and hard links.
11. Describe the purpose and function of processes and variables.
12. Utilize local administrative commands to maintain a local working system.
13. Describe the purpose and function of shell scripts.

Policies and Procedures:

1. Administrative dates of importance will be discussed during the first class meeting.
2. Homework and assignments are to be submitted electronically and are due on the date listed unless otherwise noted
3. Extra Credit assignments will be provided at the instructor's discretion.

Course Materials:

Guide to UNIX Using Linux, Fourth Edition

Author: Michael Palmer

ISBN-10: 1418837237

Copyright: 2008

Grading:

Homework (completed)200 points (8*25) (10%)

Learning Center (LC) Tutorials... 200 points (8*25) (10%)

Participation.....400 points (20%)

Mid Term.....400 points (20%)

Final Exam.....800 points (40%)

Total Points: 2000

Letter Grade

Points ≥ 1800 == A

Points ≥ 1600 == B

Points ≥ 1400 == C

Points ≥ 1200 == D

Points < 1200 == F

Or

Points ≥ 1400 == Credit

Week	Topic	Reading	Assignments
01/18/16	Course introduction, structure, and logistics	See Blackboard	<ul style="list-style-type: none"> • Homework 1 by 01/24/16 • LC Tutorial 1 by 01/24/16
	Understand the concept of virtualization and how it is used in this class.		
01/25/16	What you should know without first knowing Unix. AKA what is this crazy UNIX thing and why doesn't anything work right?	Chapter 1	<ul style="list-style-type: none"> • Homework 2 by 01/31/16 • LC Tutorial 2 by 01/31/16
	The Essence of UNIX		
02/01/16	UNIX Editors	Chapter 3	<ul style="list-style-type: none"> • Homework 3 by 02/07/16 • LC Tutorial 3 by 02/07/16
02/08/16	Exploring the UNIX File System and File Security	Chapter 2	<ul style="list-style-type: none"> • Homework 4 by 02/14/16 • LC Tutorial 4 by 02/14/16
	Fundamentals of UNIX File Systems		
02/15/16	Introduction to Shell Script Programming	Chapter 6	<p style="color: red; text-align: center;">Complete Mid Term by 02/21/16 11:59PM.</p> <ul style="list-style-type: none"> • Homework 5 by 02/21/16 • LC Tutorial 5 by 02/21/16
02/22/16	UNIX File Processing	Chapter 4	<ul style="list-style-type: none"> • Homework 6 by 02/28/16 • LC Tutorial 6 by 02/28/16
	Advanced File Processing	Chapter 5	
02/29/16	Exploring the UNIX Utilities	Chapter 8	<ul style="list-style-type: none"> • Homework 7 by 03/06/16 • LC Tutorial 7 by 03/06/16

03/07/16	The X Window System	Chapter 11	Complete Final Exam by 3/13/16 11:59PM <ul style="list-style-type: none">• Homework 8 by 03/13/16• LC Tutorial 8 by 03/13/16
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