

CISC 323 COMPUTER INFORMATION SCIENCE

LINUX Operating System Course Outline (Syllabus)

Online Distance Learning Spring 2012

Instructor: Patrick J. Hogarty

Office: B 212

Office Hours: Online Office Hour Mon 1:00 - 2:00 p.m.

On Campus Office Hours

Tue 4:30 – 6:00 p.m., Thurs 4:30 – 6:00 p.m.

Wed 4:30 – 5:30 p.m.

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Special Note: Email is the best method for contacting me. Normally, I check my email several times a day and often on weekends.

Required Text: Guide To UNIX Using Linux, Jack Dent and Tony Gaddis, Second Edition, Course Technology, ISBN: 0-619-12147-5, Third Edition, Course Technology, ISBN 0-619-21562-3 or Fourth Edition, Course Technology, ISBN 1-4188-3723-7. **Special Note:** To save money, students may use any of the editions listed above.

Class Schedule: Labs may be completed on campus in computer labs, at home or work.

Units: 1 Credit units

Course Advisory: CISC 300 or CISC 310

Acceptable for credit: CSU

Course Description This course introduces the Linux operating system for microcomputers. Concepts include kernels, file structures, daemons, shells, GUIs, procedures for installing software, creation of user accounts, shell commands, scripts, and file security.

Learning Outcomes and Objectives

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

- demonstrate use of basic Linux commands and editing, disk, file, and printer management features.
- use hard disk and memory management.
- analyze the relationship of the operating system to other applications programs.
- formulate various command lines with correct syntax.
- compare Linux with other operating systems.

Course Requirements/Assignments: Class participation and completing course work on schedule is essential to your success in this course. As this is a short-term course, we move quickly from one topic to the next. You are responsible for material covered in Online Computer Based Training Videos, textbook, assignments, handouts, and any changes in assignments. Homework assignments are listed in the Detailed Course Schedule at the end of this Class Outline (Syllabus) document.

Lab Exercises: Each chapter has step-by step exercises that show the student how to perform specific functions using the Linux Operating system. ***In the second edition of the textbook the exercises are shown with a gray background color In the third and Fourth editions of the textbook the same exercises are shown as Hand-on Projects at the end of each chapter.***

These exercises are very important because they show the student how to enter and execute commands and instructions. ***Each student is required to perform all of these exercises.*** These Exercises are worth 300 points toward your final score. On the day shown in the course schedule, each student must show and demonstrate to the instructor that they have completed these exercises. **Special Note:** Students must complete and demonstrate all lab exercises. There is **no partial credit** for lab exercises. All exercises must be completed to receive 300 points for credit.

Online End of Chapter Quizzes: Each week students will be required to take an online quiz that covers material covered in each textbook chapter, Online Computer Based Training Video, and lab exercises. See attached copy of the “Detail Course Schedule” for a list of the week when each online quiz must be complete.

Midterm/Final Exams: There will be an online midterm and comprehensive final exam for this class. These exams will include all material covered in the class to the date shown in the attached class outline.

Starting and Running a Business Video: An important part of a college student’s education is to learn how an Individual can start, run and build a business. The Sacramento City College Business Advisory Committee created a video, which discusses tips, techniques, and ideas on how to Start and Run a Business. All students in this course are required to watch this video and complete a quiz, which covers the material in the video. The video link is available to all students over the Internet. A link to the video is contained in the course Desire2Learn web site under the Content area. The title of the link is **Starting and Running a Business Video.**

Mandatory Course Orientation Quiz: All students are required to complete an online orientation quiz, which is worth 50 points toward each student’s final grade. This quiz is located on the course Desire2Learn web site and covers all of the material contained in the course outline and instructional materials on the course Desire2Learn web site. To prepare for this quiz students should perform the following steps:

1. Visit the web site shown below, which contains all of the steps necessary to complete all of the requirements as shown under the Online Course Orientation Requirements:

http://www.re-professor.com/?page_id=81

2. Watch the course overview video located on the top left side of the page. In this video, I provide an overview and cover the requirements for the course.

3. Watch the following four video tutorials located on the Course Orientation web site:

How To Log In to Desire2Learn

Desire2Learn Web Site Overview

How To Check and Change Your Email Address in eServices

How to Take Online Quizzes and Examinations in Desire2Learn

4. Watch the following two video tutorials by selecting the Online Computer Based Training Video web site link located on the Orientation web site:

Instructor Overview of Screencast Video Tutorials

How to Login to Sacramento City College Linux Server

5. Login to the Linux Server at Sacramento City College

6. Navigate thru the course Desire2Learn web site and review all the instructional materials.

7. Finally, in Desire2Learn click on the Quizzes Link and take the orientation quiz. The quiz covers all materials covered in steps 1 – 6 shown above.

Sacramento City College Linux Server Internet Address: cis.scc.losrios.edu

Desire2Learn: In this course, we will be using a course management tool called Desire2Learn. To connect to the Desire2Learn web site you will need to use a web browser like Microsoft Internet Explorer. The Uniform Resource Locator (URL) for the web site is shown below:

<http://www.scc.losrios.edu>

Using the Quick Link Drop Down Box Select the **Desire2Learn (D2L)**. After a few seconds, you should see a logon screen for the Desire2Learn Course Management System with a logon screen for your username and password.

Desire2Learn Logon Instructions: You will be asked for a **username** and **password**. Your username will consist of your student number and your password will be the same password you used in the eServices system to register for your classes.

The Desire2Learn web site will be where you will take online quizzes, obtain copies of lab assignments, a copy of the course outline, etc.

Desire2Learn Email Account: We will be using email to communicate during the course. The email address that Desire2Learn uses is the same email address that students have in the **eServices** system. **Special Note:** The Online Course Orientation has a demonstration video showing students how to both check and update their email address. This is the third demonstration and is titled "How To Check and Change Your Email Address in eServices".

Desire2Learn Class Discussion Board: This class will have a Discussion Board called **Students Helping Students**. The Purpose of this discussion board is to provide a space for students to post questions and for other students to help them find answers and share knowledge and experience. Each student in this class will be required to log onto the Discussion Board, introduce themselves, briefly explain their background in computers and what their career goals are.

Academic Dishonesty (cheating): Any indication of academic dishonesty (cheating) will result in a zero for the quiz, exam, assignment, etc. The matter will be referred to the Business Division Dean and Campus Discipline Officer for appropriate action.

Class Attendance and Participation Policy: In this online class, attendance is measured by student participation. Students who decide to complete the Mandatory Course Orientation online must have the Course Orientation quiz located in Desire2Learn completed before 11:59 p.m. the Sunday before the Mandatory on campus orientation. Students who have not completed the online course orientation or have not attended the Mandatory Course Orientation will be dropped from the class and their slots will be given to students on waiting lists. All students are expected to complete class assignments, quizzes, and examinations by the date shown in this Course Outline (Syllabus). Students, who do not complete two quizzes on or before the date shown in the course schedule, located on the last pages of this document, may be dropped from the class.

Student Drop Policy: In the event a student decides to drop the class, it is the student's responsibility to notify and complete all the necessary documentation with the admissions and records office.

Accommodations For Students With Disabilities: If you have a learning disability or a physical disability that requires accommodation, please let me know as soon as possible. All needs that have been verified through the Disability Resource Center will be accommodated.

Computer Hardware Requirements: To complete this course, students will need to remotely login to the Sacramento City College Linux server from home, work or school to complete their Mandatory computer laboratory exercises for the course. Additionally, students will need the ability to watch and listen to the Video Screencast Tutorials and Demonstrations. This means that the computer students use at home or work must have speakers or the ability to use a headset. If students are going to watch the Video Screencast Tutorials and Demonstrations in the computer laboratory on campus then they should bring their own headset. This headset can be the type that covers the ear or ear buds like those used for portable media devices like the iPod. Additionally, the headset cable should be long enough so that it can be plugged into the computer while watching the Video Screencast Tutorials and Demonstrations.

Since all computer lab laboratory exercises are completed remotely and the Video Screencast Tutorials and Demonstrations are hosted on the Internet, students will be able to use a computer with the Microsoft Windows®, Apple, Linux, or UNIX operating system installed. All computers must have a current copy of the Adobe Flash Player. Students can download a free copy of the program from the Adobe Web Site:

http://www.adobe.com/shockwave/download/download.cgi?P1_Prod_Version=ShockwaveFlash

Online Computer Based Training Video: This course uses video tutorials and demonstrations created by the instructor to deliver course lectures. These videos show the student how the instructor performed required course lab exercises. The videos are available online 24 hours a day 7 days a week. To watch the videos, students will need to have the latest version of the Adobe Flash player installed on their Microsoft Windows®, Apple, Linux or UNIX computer and a high speed DSL or Cable Modem. Additionally, student’s computer screen resolution should be at least 1024 pixels wide and 768 pixels high. Shown below is a link to the online course orientation page, which contains a link to these video tutorials and demonstrations:

http://www.re-professor.com/?page_id=81

Special Note: Students will be responsible for all materials covered on the tutorials and demonstrations.

Important Note: The Online Computer Based Training Videos were developed using the Second edition of the textbook. References to pages during the video tutorials only apply to the second edition. In the Third and Fourth editions of the textbook the step-by-step exercises were moved to the end of the chapter under the title of “Hands-On Projects”. The projects still contain the same steps as the Second edition of the textbook, therefore, the Online Computer Based Training Videos still show the steps needed to complete the Mandatory Computer Lab Exercises.

Detailed Course Schedule: On the following page is a detailed course outline showing all of the topics covered during the lectures, quizzes, and homework and classroom lab exercises. All work that the student is required to accomplish must be completed on the dates shown in the course outline.

The final grade in this class will be based on the following				
	Mandatory Orientation Quiz		50	
	Student Discussion Board Introduction		20	
	Starting and Running a Business Video		30	
	On Line Chapter Quizzes		270	
	Lab Exercises		300	
	Mid –Term Exam		100	
	Final Exam		100	
	Total Points		<u>870</u>	
Final Grade Score Ranges				
A = 783 – 870	B= 696 – 782	C = 609 – 695	D = 522 - 608	F = Below 522
Special Note: Students must complete and demonstrate all lab exercises. There is <u>no partial credit</u> for lab exercises. All exercises must be completed to receive 300 points credit.				

Detail Course Schedule

Course Dates By The Week	Topic/Lecture	Points
Jan 17 (Tuesday)	Mandatory On Campus Course Orientation	
Jan 17	Online Orientation Quiz	50
Jan 17 - 21	Student Discussion Board Introduction	20
Jan 23 - 28	Chapter 1 Course Overview Introduction To Linux Operating System	
	Logging On To Linux System	
	Chapter 2 Exploring The UNIX File System	
	Chapter 1 Online Quiz	45
	<i>Complete Chapter 1 Step-by-step exercises.</i>	50
Jan 30 – Feb 4	Chapter 3 The UNIX Editors (Using The Vi Editor) Lesson A Only	
	Chapter 2 Online Quiz	45
	<i>Complete Chapter 2 Step-by-step exercises.</i>	50
Feb 6 - 11	Chapter 4 UNIX File Processing Lesson A and B	
	<i>Complete Chapter 3 Step-by-step exercises.</i>	50
	Chapter 3 Online Quiz	45
Feb 13 - 18	Chapter 5 Advanced File Processing Lesson A	
	<i>Complete Chapter 4 Step-by-step exercises.</i>	50
	Chapter 4 Online Quiz	45
Must be completed before 11:59 p.m. Saturday, Feb 18	Midterm Exam Chapters 1 – 4 Online Midterm Exam must be completed before 12:00 midnight. After 12:00 midnight, the exam will no longer be available.	100

Course Dates By The Week	Topic/Lecture	Points
Feb 20 - 25	Chapter 5 Using UNIX File Processing Tools To Create An Application Lesson B	
	Watch Starting and Running a Business Video	30
Feb 27 – Mar 3	Chapter 6 Introduction To Shell Programming Lesson A	
	Chapter 5 Online Quiz	45
	<i>Complete Chapter 5 Step-by-step exercises.</i>	50
	Chapter 6 Creating and Completing The Corporate Phones Application Lesson B	
	Chapter 6 Online Quiz	45
	<i>Complete Chapter 6 Step-by-step exercises.</i>	50
Mar 7	Online Final Examination Must be Completed before 12:00 midnight. At 12:00 midnight, the exam will no longer be available.	100
Thursday Mar 8	All students will come to room B 151, which is located on the first floor of the Business Building. Students with last names beginning with A – L are scheduled from 3:00 – 4:00 p.m. Students with last names beginning with M – Z are scheduled from 4:00 – 5:00 p.m. All students will be demonstrating their computer programs, which are worth 300 points. Special Note: Students must complete and demonstrate all lab exercises. There is <u>no partial credit</u> for lab exercises. All exercises must be completed to receive 300 points credit.	300
Total Points for Course		870