

Linux

CS2183 – 001

Spring Semester 2008

INSTRUCTOR INFORMATION:

- NAME Gary Miller
- CLASSROOM LOCATION Library Room 212
- CLASS TIME Thursdays 5:30 pm – 8:00 pm
- OFFICE HOURS Thursdays 3:30 pm – 5:30 pm
- OFFICE HOURS LOC Adjunct office (325) or Library Room 212
- E-MAIL ADDRESS gary.c.miller@email.occc.edu - or -
info@garycmiller.com
- PHONE 685-3776 x3006
- CELL 202-2160 (preferred)

CLASS WEBPAGE:

<http://cs2183.garycmiller.com>

NOTE: Check the class web page often for changes in class assignments, material, etc.

TEXTBOOK:

Nicholas Wells, [The Complete Guide to Linux System Administration](#), 2006, ISBN 0-619-21616-6

SUPPLEMENTAL TEXTBOOK:

Mark G. Sobell, [A Practical Guide to Red Hat Linux](#) – *Fedora Core and Red Hat Enterprise Linux*, Third Edition, October 2006, ISBN 0-13-228027-2

COURSE DESCRIPTION:

This source is an introduction to the [Linux](#) operating system for users. It is designed for those with a DOS/Windows operating system background with little or no knowledge of Linux. Topics include the development of Linux; basic Linux operating system concepts; a comparison of Linux to MS Windows; frequently used Linux programs and utilities, shells, editors, and tools; X-windows GUI and applications; Linux and the internet, setting up [Apache web-server](#) software; basic HTML and CGI programming for Linux. .

PREREQUISITES: CS-1143 Beginning Programming.

All students should have access to the internet. They should know how to navigate the web with a browser, and should have an email account.

ANTICIPATED COURSE CALENDAR AND LIST OF MAJOR ASSIGNMENTS:

Note: This is a very tentative schedule, and it may need to be adjusted as class progress warrants. If needed, topics and assignments may be added or deleted.

Week	Date	Topics	Reading	Homework (25 pts each)	Exams
1	17-Jan	Introduction to Linux Exploring the Desktop	Chapter 1 Chapter 2		
2	24-Jan	Using the Shell	Chapter 3	Homework 1 due	
3	31-Jan	Understanding Users and File Systems	Chapter 4	Homework 2 due	
4	7-Feb	Understanding Text Processing	Chapter 5	Homework 3 due	
5	14-Feb	Managing Processes Using Network Clients	Chapter 6 Chapter 7	Homework 4 due	
6	21-Feb	Installing Linux	Chapter 8	Homework 5 due	Test 1 (200 pts)
7	28-Feb	Understanding System Initialization	Chapter 9	Homework 6 due	
8	6-Mar	Understanding System Initialization	Chapter 10	Homework 7 due	
9	13-Mar	Managing Users	Chapter 11	Homework 8 due	
10	20-Mar	Configuring Networks	Chapter 12	Homework 9 due	
11	27-Mar	System and Kernel Management	Chapter 13	Homework 10 due	Test 2 (200 pts)
12	3-Apr	Writing Shell Scripts	Chapter 14	Homework 11 due	
13	10-Apr	Advanced Topics and Troubleshooting	Chapter 15	Homework 12 due	
	17-Apr	Spring Break			
14	24-Apr	Apache - HTTP Server Project	TBD	Homework 13 due	
15	1-May	CGI Programming, PHP, Java	TBD	Homework 14 due	
16	8-May			Homework 15 due	Final (225 pts)

COURSE OBJECTIVES/COMPETENCIES:

Students who successfully complete the course will possess the skill to use the Linux/Unix operating system to meet their needs as a personal user. Additionally, this course will be oriented toward Linux+ certification from Computing Technology Industry Association (CompTIA), The specific course competencies are as follows:

Linux/Unix Objectives/Competencies

Operating system concepts and terms.
 Unix/Linux History.
 What sets Unix apart from other operating systems.
 How to navigate the Unix file system.
 How to write basic shell scripts.
 Overview of the emacs and vi text editors.
 Unix Commands:
 ls, ps, tee, pwd, cd,
 mkdir, echo, chmod,
 cp, mv, ln,

cat, tail, head,
 passwd, stty, man,
 who, sort, uniq, diff,
 telnet, ssh
AND LOTS MORE!

File permissions.
 Security issues
 Shell programming.
 Using X windows
 How to use the Unix shell

Command history	Killing processes
Customizing the shell	Monitoring processes
Putting processes into background	Putting processes into background
Redirecting input and output	Networking commands:
Using the pipe ' ' command.	finger, telnet, rlogin, ftp
Environment variables	Setting up the Apache Web server
Setting up your PATH	Writing CGI scripts for the web.
Unix processes	Basic Unix administration.

CLASS REQUIREMENTS:

The class will be taught in a computer-equipped classroom. Students will be given exercises during class as well as assignments to complete outside the classroom. It is the student's responsibility to arrange his schedule for completion of assignments outside of class periods.

ATTENDANCE:

Students are expected to attend classes so they may achieve the class competencies. It is the student's responsibility to withdraw from a class because of non-attendance.

GRADING CRITERIA AND PROCEDURES:

The following scale will determine the overall letter grade for this course:

A (1000 – 900 Points) ACCOMPLISHED COURSE OBJECTIVES WITH EXCELLENCE
The sum of the test and assignment scores must be 90% or better of the total possible points.

B (899 – 800 Points) ACCOMPLISHED COURSE OBJECTIVES WITH MERIT
If the student does not have enough points for an A, then the requirement for a B is 80% or better of the total possible points.

C (799 – 700 Points) ACCOMPLISHED COURSE OBJECTIVES WITH COMPETENCE
If the student does not have enough points for a B, then the requirement for a C is 70% or better of the total possible points.

D (699 - 600Points) ACCOMPLISHED COURSE OBJECTIVES WITH ACCEPTANCE
If the student does not have enough points for a C, then the requirement for a D is 60% or better of the total possible points.

F (< 600 Points) COURSE OBJECTIVES BELOW MINIMUM ACCEPTANCE
The sum of the test and assignment scores is below 60% of the total possible points

DUE DATES:

Outside assignments and due dates are as listed above unless otherwise specified in class. Work is to be turned in/posted **AT THE BEGINNING OF THE CLASS** on the designated day. Late work will be penalized by 50% of the grade.

TESTING DATES:

If you are unable to take a test at the designated time, you must make arrangements with the instructor. This must be done before the in class test/test deadline. Only under very extreme circumstances will a student be allowed to schedule a makeup test. Re-testing to improve an exam score will not be allowed.

PLAGARISM IS NOT TOLERATED. ANYONE CAUGHT CHEATING ON A TEST OR AN ASSIGNMENT WILL AUTOMATICALLY RECEIVE A ZERO. IT DOES NOT MATTER WHETHER YOU ARE GIVING OR RECEIVING THE INFORMATION. IN EITHER CASE, YOUR GRADE FOR THAT ASSIGNMENT WILL BE ZERO. STUDENTS ARE ENCOURAGED TO SEEK THE AID OF FELLOW STUDENTS IF HELP IN UNDERSTANDING THE MATERIAL IS NEEDED. HOWEVER, IN THE END, EACH STUDENT MUST DO HIS/HER OWN ASSIGNMENT.

ISSUANCE OF GRADES:

Instructor prepared progress reports and attendance report will be periodically passed out in class. It is up to the student to verify the validity of these reports and tell the instructor after class if they have questions or if they don't agree with what the report shows.

DISCLAIMER:

The assignments, point values, schedule, and testing dates presented in this syllabus may be subject to change in the event of extenuating circumstances or if class progress warrants. Since this is a new class, adjustments may be needed as the semester progresses.

ACCOMMODATIONS FOR STUDENTS WITH SPECIAL NEEDS:

Oklahoma City Community College complies with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Students with disabilities who seek academic accommodations must make their request by: Contacting the Office of Student Support Services located on the first floor of the main building near entry 12, or call 682-7520.

ASSESSMENT OF STUDENT LEARNING:

Oklahoma City Community College is committed to providing quality educational experiences to all students and to striving for continuous improvements in its programs and services. Student assessment is vital to the educational process and can be of significant value to you and to the students who follow you.

To ensure that adequate assessment information is available to allow OCCC to continuously improve programs and services, you may be asked to participate in personal interviews; take program and/or general education assessments, which could be tests; give oral presentations, write assignments, take surveys, or engage in other activities. You may be asked to complete the assessments, tests, and other activities during designated times, which may include class periods. These opportunities are your chance to help OCCC improve the courses, programs, and services which could affect you and will certainly impact students in the future.