

CLASS NUMBER AND NAME: CSN385 -Linux Security, Ethics, and Privacy

TOTAL HOURS/UNITS: 72 Hours /5.0 Units

PREREQUISITES: CSN375--Linux Networking

TEXTS AND MATERIALS: *RHCSA/RHCE Red Hat Linux Certification Study Guide*
Michael Jang
McGraw Hill
(ISBN 9780071765657)

CLASS DESCRIPTION: A combination of lecture and lab exercises introducing the student to the basic concepts of using shells and scripts, including the vi editor, Networking fundamentals, Network services and Managing security.

CLASS OBJECTIVES: The students should be able to understand and administer Linux in a workstation and server environment, including: Theory of Operation, Base Systems, Commands, System Utilities, Applications , Troubleshooting and Networking.

CLASS FORMAT OVERVIEW: This class is a combination of lecture and lab.

Time spent in preparation for or reflection on course lecture will approximate two hours outside of class for each lecture credit hour utilized by the instructor in delivery of the material and ¼ hour outside of class for each hour of structured lab time.

METHODS OF INSTRUCTION:

As lecture and lab are the principal means of instruction, it will be expected that all students will be present every day to take part in class.

Students are required to read and complete chapter review questions prior to lectures. Upon completion of lectures, the homework will be reviewed and discussed in class. All work submitted must be typewritten. No handwritten material will be accepted. Excuses are frowned upon – Solutions are encouraged!

Students should be aware that a reasonable effort at note taking is a requirement in this class. The main goal of this class is for you to learn basic vocabulary, concepts and skills. Some newer material is not in the text at all; some of the concepts in the text may be difficult to grasp until someone explains them to you. Therefore, note taking is essential. A student binder is highly recommended, as a great deal of printed material will be distributed throughout the course

CLASS ATTENDANCE:

It is **CRITICAL** to the student's success to attend class every day and that all exercises and projects be completed on time. Attendance will be taken 15 minutes after the beginning of class. *A Student who is not present at this time will be marked absent from the class for that day.* Attendance counts towards a major portion of your grade – please notify your instructor in advance if you need to be absent.

A student with more than five absences (less than 80% attendance) will receive an automatic grade of F in the class. This grade can only be corrected by retaking this class.

TESTING:

Tests will be given as announced.

LATE TESTING:

There is NO late testing or re-takes. You must attend the day of the test. If you know you will be absent you must make arrangements *in advance*.

GRADING POLICIES:

The grading system for this module consists of the following:

Attendance -----	15%
Labs -----	20%
Homework-----	25%
Weekly exams-----	30%
End of module final-----	10%

FINAL GRADE:

Combined grades from attendance, class participation, exercises, weekly quizzes, professional attitude and module final will be graded on the following scale:

- 90 – 100% = A
- 80 – 89 % = B
- 70 – 79 % = C
- 60 - 69 % = D
- 2.- 59 % = F

ANTICIPATED LEARNING OUTCOMES:

Upon completing this course, the student will be able to:

1. Use normal administrative commands
2. Perform account management and logging
3. Start and stop daemons
4. Perform Backups
5. Schedule Jobs
6. Understand Networking Fundamentals
7. Use FTP, Apache, Samba and sendmail
8. Understand DNS
9. Manage Security on a Linux system

Reading-

You must read the chapters and be prepared before we start the chapter in class.

Lab Work-

Labs consist of the Exercises in the chapter and the labs on the CD provided with the book. Both are due before we start the next chapter in class.

Oral Presentations-

Also due on the days we test will be a short 3-5 minute oral presentation on a new article dealing with Linux. You will summarize the article and then explain why it is important to system admins and Linux professionals.

Tests-

Tests will be given as announced. They will hands on using the skills developed during the week, and from previous weeks as well.

Six Week Tentative Schedule

Week 1

Lab Setup
Chapter 8
Chapter 9
Review
Labs Due
Oral Presentation
Test

Week 2

Chapter 10
Chapter 11
Review
Labs Due
Oral Presentation
Test

Week 3

Chapter 12
Chapter 13
Review
Labs Due
Oral Presentation
Test

Week 4

Chapter 14
Chapter 15
Review
Labs Due
Oral Presentation
Test

Week 5

Chapter 16
Review
Labs Due
Oral Presentation
Test

Week 6

Chapter 17

Review

Labs Due

Oral Presentation

Test