

CLASS NUMBER AND NAME:	CSN375--Linux Networking
TOTAL HOURS/UNITS:	72 Hours /5.0 Units
PREREQUISITES:	CSN365—Linux System Administration
TEXTS AND MATERIALS:	<i>Linux + Guide to Linux Certification Third Edition</i> <i>Jason W. Eckert.</i> <i>Course Technology Cengage Learning.</i> (ISBN 9781133500384) <i>RHCSA/RHCE Red Hat Linux Certification Study Guide</i> <i>Michael Jang</i> <i>McGraw Hill</i> (ISBN 9780071765657)
CLASS DESCRIPTION:	A combination of lecture and lab exercises introducing the student to the basic concepts of using Apache, FTP, Bind, Sendmail, telnet, SSH and other services.
CLASS OBJECTIVES:	This course provides introductory and advanced coverage of Linux System Administration. The text maps completely, CompTIA's Linux+ exam, and the Level 1 Linux Professional Institute (LPI) exam. This course also prepares the students for the RHCSA exam. The course requires many hands-on projects and case projects, which allow students to practice skills as they are learned
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. Configure the X Windows System for computers.
2. Understand and configure the Boot Process
3. Manage Users and Groups
4. Administer the system.
5. Recompile a Linux Kernel
6. Use Shells and Scripts

Homework-

Homework consists of three parts. Reading, answering the Review questions at the end of the chapter and on-line labs. Reading and Review questions are due on the day we begin the chapter in class, while the on-line labs will be checked on the day of the test that includes the chapters.

Lab work-

Lab work will be completed in class. It will consist of the projects and discovery exercises located at the end of the chapters. Both will be due before we start the next chapter.

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 mainly be multiple choice, fill in the blank, matching and modified true-false. There may also be a hands on component to the test depending on the material covered.

Six Week Tentative Schedule

Week 1

Lab Setup
Chapter 11
Chapter 12
Review
Labs Due
Oral Presentation
Test

Week 2

Chapter 13
Chapter 14
Review
Labs Due
Oral Presentation
Test

Week 3

Chapter 1
Chapter 2
Review
Labs Due
Oral Presentation
Test

Week 4

Chapter 3
Chapter 4
Review
Labs Due
Oral Presentation
Test

Week 5

Chapter 5

Chapter 6

Review

Labs Due

Oral Presentation

Test

Week 6

Chapter 7

Review

Labs Due

Oral Presentation

Test

