

**CLASS NUMBER AND NAME:** **CS365 Linux System Administration**

**TOTAL HOURS/UNITS:** CS365A,B,C A,B,C = 25 Hours each. Total Hours = 75

**PREREQUISITES:** Knowledge of DOS commands.  
Understanding of Networking principles including:  
DHCP, DNS, WINS, IP addressing and subnetting,  
CS260 Introduction to Linux

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**TEXTS AND MATERIALS:** *The Complete Guide to Linux System Administration, Course Technology* ISBN 0-619-21616-6  
  
*Fedora 10 and Red Hat Enterprise Linux, Wiley Publishing, Inc.* ISBN 978-0-470-41339-5  
Installation CD's and DVD's as included in the book  
Optional: *Quick Study Linux*

**CLASS DESCRIPTION:** A combination of lecture, lab exercises and hands on training the student in the principles of the Linux/Unix administration.

**CLASS OBJECTIVES:** This course provides introductory and advanced coverage of Linux System Administration. The text maps completely to the Red Hat Certified Technician (RHCT) exam, CompTIA's Linux+ exam, and the Level 1 Linux Professional Institute (LPI) 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.

METHODS OF INSTRUCTION:

As lecture and labs 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 printed. No handwritten material will be accepted. Review questions must include the complete answer and are due at the beginning of **Fridays'** class, or as announced. Any review questions turned in after the beginning of class are considered late and penalty points will be assessed.

**Excuses are frowned upon – Solutions are encouraged!**

**NOTE TAKING:**

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.

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 10 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 25% of your grade – please notify your instructor in advance if you need to be absent. **A minimum of 80% attendance is required to pass this class. 5 days of absences will put you below this mark.**

TESTING:

Tests will be given as announced

LATE WORK:

There are no make-up tests. Late homework will not be graded. If something comes up let me know ahead of time and we can work something out.

**GRADING POLICIES:**

The grading system for this module consists of the following:

Attendance, participation, Professional attitude-----	25%
Homework-----	25%
Weekly exams-----	20%
End of module final-----	30%

**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
0- 59 % = F

**ANTICIPATED LEARNING OUTCOMES:**

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

1. Configuring the X Windows System for computers
2. Set up, configure and maintain network services
3. Configure and use Samba for connecting to Windows NT Servers
4. Administering Linux in a stand alone, network environment.
5. Setup and administer printing to a NT or W2K machine.