



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2006-07

(i.e. 2003-2004)

NEXT REVIEW: 2011-12

(i.e. 2008-2009)

STATUS: A

(A, I, D)

COURSE TITLE: Red Hat Linux System Administration I

COMMON COURSE NUMBER: CTS1337C

CREDIT HOURS: 3

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS:

(Voc. Course ONLY)

Lecture: **40**

Lab: **8**

Clinic:

Other:

PREREQUISITE(S): CTS1111C

COREQUISITE(S):

PRE/COREQUISITE(S):

COURSE DESCRIPTION: *(750 characters, maximum)*

Students will learn to be effective administrators of Linux systems, mastering tasks such as hardware and device configuration, file system management, user administration, network configurations, kernel services, attaching new Linux systems to a corporate network, configuring the new systems for end-users, and troubleshooting. This is the first course in the series of two for the Red Hat Linux Core System Administration curriculum.

UNIT TITLES

1. Red Hat Enterprise Linux Installation
2. Hardware and Device Configuration
3. Linux Filesystem Management
4. System Initialization and Services
5. User and Group Administration



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UNITS

Unit 1 Red Hat Enterprise Linux Installation

General Outcome:

1.0 The student shall:

Learn how to install Red Hat Enterprise Linux

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 1.1** The Red Hat Linux Installer: Anaconda
- 1.2** Anaconda Stage 2: The Installer Proper
- 1.3** Network Based Installations, and Other Installer Topics
- 1.4** Using Kickstart to Automate Installations



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Unit 2 Hardware and Device Configuration

General Outcome:

2.0 The student shall:

Learn how to configuration hardware and devices

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 2.1 Hardware Overview
- 2.2 PCI Devices
- 2.3 USB and Other Hot Pluggable Devices
- 2.4 Filesystem Device Nodes
- 2.5 Performance Monitoring



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Unit 3 Linux Filesystem Management

General Outcome:

3.0 The student shall:

Learn how to manage filesystems and hard disks

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 3.1** Disk Recognition and Partitioning
- 3.2** Creating and Managing Filesystems
- 3.3** Mounting Filesystems
- 3.4** The /etc/fstab File
- 3.5** Managing Swap Space
- 3.6** Miscellaneous Filesystem Management



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Unit 4 System Initialization and Services

General Outcome:

4.0 The student shall:

Understand and alter the boot sequence

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.1 Boot Sequence Overview
- 4.2 The GRUB Bootloader
- 4.3 /sbin/init and Run Levels
- 4.4 Red Hat Enterprise Linux Service Scripts
- 4.5 Troubleshooting the Boot Sequence



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Unit 5 User and Group Administrator

General Outcome:

5.0 The student shall:

Learn how to create and manage users and groups

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 5.1** Define a user
- 5.2** Adding, Modifying, and Deleting Users
- 5.3** Managing Passwords
- 5.4** Adding, Modifying, and Deleting Groups
- 5.5** Users and the UNIX Filesystem
- 5.6** Network Based User Models
- 5.7** Customizing the User's Environment