

Bossier Parish Community College

Master Syllabus

Course Prefix and Number: CTEC 172

Credit Hours: 3-3-0

Course Title: Linux Server

Course Prerequisites: CTEC 155 or CTEC 112

Textbook(s): **Red Hat System Administration 1 -RHEL 8 RH124 – EN.** The html textbook will be provided free of charge to the student. A link will be sent out to all students enrolled in the course the first week of the semester.

Software: The lab environment will be provided by InfosecLearning.com. The student is required to purchase a subscription to RH 124 Red Hat Administration I – Labs. This subscription can be purchased by the student at the bookstore. This subscription needs to be purchased the first week of class.

Course Description: This course is mapped to the Red Hat System Administration I (**RH124**) course and equips you with Linux® administration "survival skills" by focusing on foundational Linux concepts and core tasks. You will learn how to apply command-line concepts and enterprise-level tools, starting you on your journey toward becoming a full-time Linux system administrator.

Learning Outcomes:

At the end of this course, the student will:

- A. install a server with the RedHat Enterprise Linux operating system;
- B. establish network connectivity to the server;
- C. manage the physical storage of the server; and
- D. provide basic security administration to the server.

At the end of this course, the student will or will be able to:

(The letter designations at the end of each statement refer to the learning outcome(s).)

- 1. access the command line; (A) (D)
- 2. manage files from the command line; (C)
- 3. create, view, and edit text files; (C) (D)
- 4. manage local users and groups; (D)
- 5. monitor and manage Linux processes; (D)
- 6. control services and daemons; (D)
- 7. control access to files with file system permissions; (C) (D)
- 8. analyze and store log files; (C)
- 9. configure and secure the OpenSSH service; (B)(D)
- 10. install and update software packages; (A) (D)
- 11. access Linux file systems; and (B) (C)
- 12. manage Linux networking; (B)

Course Requirements:

1. A student must successfully complete the course with an average of 70% or above on the combined learning outcomes.
2. Each student is expected to attend classes regularly; excessive unexcused absences constitute grounds for suspension (refer to the student handbook for attendance policies).

Course Grading Scale:

A = 90 - 100
B = 80 - 89
C = 70 - 79
D = 60 - 69
F = 0 - 59

Attendance Policy: The college attendance policy is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams, and/or clinical fees.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

COORDINATOR FOR SECTION 504 AND ADA

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