

Bossier Parish Community College  
Master Syllabus

**Course Prefix and Number:** CTEC 272

**Credit Hours:** 3-3-0

**Course Title:** Advanced Topics in Linux

**Course Prerequisite:** CTEC 172

**Optional Textbook(s):** Christopher Negus. Linux Bible, 9<sup>th</sup> edition. Wiley. ISBN: 978-1-118-99987-5

**Course Description:** Advanced topics in Linux, including the Linux file system, directories, utilities, the shell and command line operations, the kernel, server software, and applications of Linux to network security.

**Learning Outcomes:**

At the end of this course, the student will:

- A. manipulate the Linux file system and directories;
- B. write the Linux shell and the command line operations;
- C. use the Linux systems to manage network security; and
- D. build and demonstrate a Linux Server.

To achieve the learning outcomes, the student will or will be able to:

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

1. identify the structure of the file system (A);
2. navigate the Linux directories (B);
3. recognize the Linux shell (B);
4. utilize common command-line operations in Linux (B);
5. manage a LAN using Linux Ubuntu (C);
6. discuss aspects of security, including firewalls and mail servers (C); and
7. utilize knowledge of Linux to implement network security (A,B,C).

**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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**Equity/Compliance Coordinator**

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