

Pellissippi State Community College
Master Syllabus

**INTRODUCTION TO LINUX
CSIT 2410**

Class Hours: 3.0
Credit Hours: 4.0
Laboratory Hours: 3.0
Date Revised: December 2010

Instructor:
Office:
Phone:
Email:

Catalog Course Description:

A hands-on study of the Linux operating system. Topics include open source software, Linux installation and system software, user and group administration, file system administration, wired and wireless network configuration, and introduction to bash script.

Entry Level Standards:

The entering student should have college-level reading and math skills; keyboarding skills of at least 28 wpm. The students should be familiar with a GUI operating system.

Prerequisites: None

Corequisites: None

Textbook(s) and Other Course Materials:

Textbook not required.

I. Week/Unit/Topic Basis:

Week	Topic
1	Open source software and Linux
2	Linux Installation
3	Getting started with basic commands and desktop
4	File system hierarchy
5	Using email clients and OpenOffice Applications
6	Working with storage devices
7	Using graphics and multimedia applications
8	Understanding processes and system run levels
9	Editors, Filters, and pipes
10	User and group administration
11	File system Administration
12	Introduction to networking
13	Introduction to shell scripting
14	Installing and updating packages, Hands-on exam
15	Comprehensive final exam

II. Course Goals*:

The course will

- A. Enhance effective use of Linux/Unix commands and utilities. (II, III)
- B. Guide students to understand Linux/Unix file system, pipes, shell environment and configuration files. (II, III, IV)

- C. Expand student's knowledge on use of common Linux/Unix GUI environments, system installation tools and desktop applications. (I, II)
- D. Extend effective use of Linux/Unix shell scripting, text editors and system software management tools. (II, IV, V)
- E. Guide students to understand and use Linux/Unix user and group administration, file system administration and network administration. (II, III, VI)

III. Expected Student Learning Outcomes*:

Students will: be able to:

1. Explain differences between open and close source software and identify production and testing phase Linux kernels. (A, C)*
2. Perform Linux installation. (A, B, C, E)*
3. Practice basic commands and utilities. (A, B)
4. Use storage devices, editors, OpenOffice applications and GUI desktop environments such as KDE and GNOME. (C, D)
5. Develop shell scripts. (A, B, D)
6. Create users and assign them to groups, configure wired and wireless networks and examine related configuration files. (A, C, E)
7. Perform file system administration and apply permissions to files and directories. (B, C, E)
8. Test software integrity and update system software using rpm and yum utilities. (A, C, D)

* Capital letters after Expected Student Learning Outcomes reference the course goals listed above.

IV. Evaluation:

A. Testing Procedures: 50 % of grade

One hands-on and three theoretical tests are recommended. Final exam will be comprehensive. Hands-on exam will be 20% of grade. There will be no make-up tests unless prior arrangements have been made with the instructor. Failure to make a passing test average may result in a grade of F for the course.

B. Laboratory Expectations: 40 % of grade

At least 6 lab assignments will be given during the course of the semester. In addition, students may be assigned a team project. Laboratory assignments and team project must be completed and handed in on the due date and time. Failure to make a passing average in lab assignments and team project may result in a grade of F for the course.

C. Field Work: N/A

D. Other Evaluation Methods: 10 % of grade Homework assignments and/or quizzes

E. Grading Scale:

93 – 100	A
88 – 92	B+
83 – 87	B
78 – 82	C+
73 – 77	C
65 – 72	D
Below 65	F

V. Policies:

A. Attendance Policy:

Pellissippi State Community College expects students to attend all scheduled instructional activities. As a minimum, students in all courses must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course.

[NOTE: No differentiation is noted for excused/unexcused absences. These will be treated as an absence.] (Pellissippi State Catalog, <http://www.pstcc.edu/catalog>)

Maintaining continuous attendance in your classes is very important. If you are considering dropping or withdrawing from a course, please check with the Financial Aid Office before doing so. Dropping or withdrawing from a class can adversely affect your financial aid and/or lottery eligibility.

B. Academic Dishonesty:

Plagiarism, cheating, and other forms of academic dishonesty are prohibited. Students guilty of academic misconduct, either directly or indirectly through participation or assistance, are immediately responsible to the instructor of the class. In addition to other possible disciplinary sanctions which may be imposed through the regular Pellissippi State procedures as a result of academic misconduct, the instructor has the authority to assign an F or a zero for the exercise or examination or to assign an F in the course. (Pellissippi State Catalog, <http://www.pstcc.edu/catalog>)

C. Accommodations for disabilities:

Students who need accommodations because of a disability, have emergency medical information to share, or need special arrangements in case the building must be evacuated should inform the instructor immediately, privately after class or in her or his office. Students must present a current accommodation plan from a staff member in Services for Students with Disabilities (SSWD) in order to receive accommodations in this course. Services for Students with Disabilities may be contacted by going to Goins 127, 132, 134, 135, 131 or by phone: 539-7153 or TTY 694-6429. More information is available at www.pstcc.edu/departments/swd/.

D. Computer usage guidelines:

College-owned or –operated computing resources are provided for use by students of Pellissippi State. All students are responsible for the usage of Pellissippi State’s computing resources in an effective, efficient, ethical and lawful manner. (Pellissippi State Catalog, <http://www.pstcc.edu/catalog>)