Piedmont Technical College Course Syllabus

COURSE INFORMATION

Course Prefix/Number: CPT 247

Title: UNIX Operating System

Responsible Division: Business, Information Technologies and Public Service

Last Day to Withdraw from this Course: For the last date to withdraw from this course, consult the current *Student Calendar*.

Course Description:

For course, credit hour, pre-requisite(s) and co-requisite(s) information, visit the Detailed Course Information page: www.ptc.edu/courses/CPT247.

Textbook and Other Materials:

For textbook information and additional required and/or supplemental materials, visit the college bookstore (www.ptc.edu/bookstore).

Proctored Examinations:

Proctored examinations for distance learning courses taken at non-PTC campuses may require a proctoring fee for each exam taken.

COURSE POLICIES

Course policies are available online through the *Academic Catalog* and *Student Handbook*. Visit the Course Policies page (www.ptc.edu/syllabus/policies) for a detailed list of important policies and more information.

GRADE POLICY

Detailed grading policy information can be found on the Grading Policy webpage (http://www.ptc.edu/grading-policy). Final grade appeal information is available in the *Academic Catalog* (http://www.ptc.edu/catalog/).

ACCOMMODATIONS

Accommodations for ADA:

Information is available on the Student Disability Services webpage (http://www.ptc.edu/ada).

TITLE IX HARASSMENT AND SEXUAL ASSAULT INFORMATION

In accordance with Title IX of the Education Amendments of 1972, Piedmont Technical College does not discriminate on the basis of sex in its education programs or activities. Title IX protects students, employees, and applicants from sex discrimination in admissions and employment to include discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. More information regarding Title IX, including contact information for the Title IX coordinators, is available at Title IX Harassment and Sexual Assault Information (https://www.ptc.edu/about/legal-disclosures/title-ix-harassment-and-sexual-assault-information).

RATIONALE

Why do I need this course?

This course is intended for students who want to learn UNIX/Linux and will cover the command, desktop, and programming features built into UNIX/Linux. It provides a solid beginning for general UNIX/Linux users, programmers, and system administrators. Topics included: utilities, how to work in a command-line environment, how to use the vi editor, how to write shell scripts, the UNIX/Linux file system and how to install and administer common UNIX/Linux features.

PROGRAM INFORMATION

For program information including required courses, program learning outcomes, gainful employment information and advisement information, refer to the Academic Program webpage. Go to Academics (http://www.ptc.edu/academics), select your program, and then select Credentials Offered.

COURSE STUDENT LEARNING OUTCOMES

Revision Date: 1/7/2021

Upon successful completion of this course and/or clinical, each student will be able to:

• Identify the characteristics of various Linux distributions and outline the key features of the Linux operating system.

• Prepare for and install the Linux Operating System using good practices.

• Demonstrate the use of basic UNIX/Linux commands to create, delete, copy and move files and directories, view file contents and redirect output into files.

• Explain the purpose of UNIX/Linux shells and navigate the UNIX/Linux file system.

• Use commands to combine, cut, paste, rearrange and sort information in files and configure file permissions.

• Create and execute basic shell scripts using the vi editor.

• Categorize the different types of processes on a Linux system and view the processes using the standard Linux utilities.

• Demonstrate common administrative tasks that include the set up and manage of printers and the management of user and group accounts.

GENERAL EDUCATION COMPETENCIES

Piedmont Technical College General Education Competencies for All Graduates:

This course may address one or more of the following General Education Competencies (assessment will be stated when applicable):

Communicate effectively.

Assessment:

N/A

Apply mathematical skills appropriate to an occupation.

Assessment:

Apply mathematical skills to solve problems

Employ effective processes for resolving problems and making decisions.

Assessment:

Students will troubleshoot UNIX operating system issues.

Revision Date: 1/7/2021

Demonstrate the basic computer skills necessary to function in a technological world.

Assessment:

Students will use Microsoft Office for several assessments to complete assignments.

To validate proficiency in the general education competencies, students in some programs will be tested using Work Keys.

Revision Date: 1/7/2021