# Credit for Prior Learning Examination

## CIT 371 - Unix Systems

## Course Description

**CIT 371 Unix Systems**
 **(3 credits)**

Advanced usage and basic administration of Unix/Linux systems, including management of files, users and processes, tools for editing and pattern matching, shell scripting, and software installation.

## Study Resources

Linux With Operating System Concepts, 2nd edition, by Richard Fox

## Exam Details

To complete this exam, it is assumed that students know Red Hat Linux and specifically CentOS Stream 9. This examination is designed to determine whether students have sufficient knowledge and skill in the Linux operating system, including system administration tasks. The exam requires that students know the following Linux and administration topics:

- use the command-line interface specifically to navigate the Linux file space, launch processes, view system resource utilization and issue network-based commands
- read and understand, and write scripts in Bash
- read and understand, and write regular expressions, and use the grep/egrep program
- understand the Linux initialization process (for either RedHat 6 or RedHat 7)
- create and modify user accounts, understand and be able to change file permissions
- mount and unmount partitions
- understand the role of the top-level Linux directories, understand what an inode is, understand the types of files
- understand the role of Linux services, how to configure them (in general), how to start and stop them, how they are started automatically at system initialization time
- install software using yum and source code using ./configure, make, make install
- understand the role of log files and how to use them to determine events
- use the at and crontab scheduling programs

The exam requires that the student be able to write specific Linux commands, explain commands, write scripts, explain scripts, and understand concepts as listed above.

This is a closed-book, closed-note exam with a time limit of 120 minutes.

Students who fail this examination will not be permitted to retake it.

For questions regarding this exam, please contact Richard Fox (foxr@nku.edu) or Tony Tsetse (tsetsea1@nku.edu).