

Master Syllabus

CIS 2550 - Linux Operating System

Division: Business and Public Services

Department: Computer Information Systems

Credit Hour Total: 3.0 **Lecture Hrs:** 3.0

Prerequisite(s): CIS 1107 AND CIS 1130 OR CIS 1411

Date Revised: June 2015

Course Description:

Linux operating system installation, management, administration, troubleshooting techniques, writing and debugging shell procedures, pipes and interprocess communications, command lists and network configuration for beginning and intermediate students. This course prepares students for the CompTIA Linux + exam.

General Education Outcomes:

- ▣ Critical Thinking/Problem Solving Competency
- ▣ Computer Literacy Competency
- ▣ Information Literacy Competency

Course Outcomes:

Systems Tasks

Configure automated tasks using shell procedures.

Assessment Method: Locally developed exams
Performance Criteria: 70% or higher on locally developed exams

Assessment Method: Simulations
Performance Criteria: 70% or higher on labs

Administrative Tasks

Use Linux administrative tasks.

Assessment Method: Locally developed exams
Performance Criteria: 70% or higher on locally developed exams

Assessment Method: Simulations
Performance Criteria: 70% or higher on labs

Command Line Interface

Use command line interface administration to manage server roles in a network environment.

Assessment Method: Locally developed exams
Performance Criteria: 70% or higher on locally developed exams

Assessment Method: Simulations
Performance Criteria: 70% or higher on labs

Local Area Network

Describe essential network concepts associated with a Linux environment.

Assessment Method: Locally developed exams
Performance Criteria: 70% or higher on locally developed exams

Assessment Method: Simulations
Performance Criteria: 70% or higher on labs

Outline:

Graphical interface to manage Linux operating system
System management and administrative tools
Shell procedures
Troubleshooting and performance
Network and network services configuration
Concepts found in the Linux+ exam