

## 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

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#### 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