CIT 240. INTRODUCTION TO LINUX.
Credit Hours: 3
Scheduled hours per week
Lecture: 2
Lab: 1
Other: 0

Catalog Course Description: Students learn the basics of how to install, configure, and use the Linux operating system; learn the commands and graphical interfaces; and configuration and troubleshooting techniques.

Pre-requisites: CIT 114

Co-requisites: N/A

Course Learning Outcomes:
- To understand, describe, and demonstrate installation, configuration, and troubleshooting of the Linux operating system and related services.
- This course prepares the learner for the CompTIA Linux+ certification.

Topics to be studied:
- Introduction to the Linux operating system
- Installation and usage
- File system management and administration
- Server deployment
- BASH shell
- System Initialization and X Windows
- Managing Linux processes
- Common administrative tasks
- Compression, system backup, and software installation
- Network configuration
- Configuring network services
- Troubleshooting, performance, and security

Relationship of Course to Program or Discipline Learning Outcomes:

	Identify and describe layers of the OSI and TCP/IP models, and use them effectively in troubleshooting
	Describe and apply LAN and WAN technologies in wired and wireless environments
X	Demonstrate ability to apply workstation and server installation, configuration, management and troubleshooting techniques
X	Demonstrate ability to install, configure, manage, and maintain routing and switching technologies
X	Describe and discuss different operating systems and their relationship with hardware, their functions, advantages and disadvantages, and their respective tools and software packages
X	Explain Information Systems and choose appropriate systems based on requirements
X	Describe basic information security and computer ethics

Relationship of Course to General Education Learning Outcomes:	
Composition and Rhetoric Students illustrate a fundamental understanding of the best practices of communicating in English and meet the writing standards of their college or program-based communication requirements.	X
Science & Technology Students successfully apply systematic methods of analysis to the natural and physical world, understand scientific knowledge as empirical, and refer to data as a basis for conclusions.	X
Mathematics & Quantitative Skills Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.	X
Society, Diversity, & Connections Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.	
Human Inquiry & the Past Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem-solving skills.	X
The Arts & Creativity Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art.	
5/3/2016	

Special requirements of the course:

Students will be required to setup and configure the Linux operating system during their final in order to pass the class.

Additional information:

This course requires a C or better to enroll into CIT 340 (Advanced Linux Networking).

Prepared by: Doug Rhodes

Date: 10/20/2017