

# **Computer Information Department Course Outline**

## **NTWK 2073 NETWORKING WITH UNIX (On Demand)**

### ***Catalog Description***

An introductory course on concepts and practical applications of the UNIX operating system. Emphasis is on commands used to create and manipulate files and directories and obtain information from the system. Basic shell scripts will be created and tested and system security will be introduced. (Outside lab time will be required.)

### ***Prerequisites***

CISM 1313 Operating Systems – UNIX  
NTWK 2014 Networking and Information Systems

### ***Credit Hours/Contact Hours/Load Hours***

3/3/3

### ***Target Audience/Transferability***

The target audience includes, but is not necessarily limited to, the following:

- Students pursuing a career in Web Technologies or computer Networking or other related field
- Students who wish to enhance their understanding of the Unix/Linux operating systems
- Community members or networking professionals who wish to expand their understanding of the UNIX/Linux operating system in the networked environment

### ***Student Learning Outcomes***

Students completing this course will:

- Demonstrate knowledge of the concepts of a UNIX operating system
- Correctly install and utilize a UNIX based operating system
- Install and configure the LINUX operating system
- Configure internet server options
- Configure departmental server options
- Provide security and troubleshooting in a Linux networking environment
- Utilize the ability of an operating system to assist with the correct operation of computers in a working environment.
- Demonstrate how to configure a firewall in the Linux environment

### ***Topics***

- Basic Installation and Boot Process
- The Network Interface
- Login Services
- Linux Name Services
- Configuring a Mail Server
- Apache Web Server
- Network Gateway Services
- Desktop Configuration Services
- File Sharing
- Printing Services
- Providing Security
- Troubleshooting

## ***Forms of Assessment***

Quizzes, exams, and projects. A comprehensive final exam is required, accounting for 20-25% of the final grade.

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