

**NorthWest Arkansas Community College  
Business and Computer Information Course**

***NTWK 2073 NETWORKING WITH UNIX (S – Odd Years)***

***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 2013 Networking and Information Systems

***Credit Hours: 3***

***Target Audience and Transfer***

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

***General Course Objectives***

- To offer curriculum and instructional methods that support student learning.
- To develop in each learner the skills and attitudes necessary for the attainment of academic and career goals.
- To develop in each learner the enjoyment of learning and the lifelong pursuit of knowledge.

***Core Course Objectives***

A successful student will be able to perform the following tasks:

- Install and configure the Linux operating system
- Configure Internet server options
- Configure departmental server options
- Provide security and troubleshooting in a Linux networking environment

***Required/Optional Texts And Student Resources***

Required:

*The Complete Guide to Linux System Administration*, N. Wells.

Publisher: Course Technology: 2005. ISBN 0-619-21616-6.

Optional:

Web-based resources as may be provided by the instructor during the course of the semester.

***Required Forms of Assessment***

A comprehensive final exam will be required, which accounts for 20-25% of the final grade

***Required Topics Covered***

- 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