

Computer Information Department Course Outline

NTWK 2023 NETWORK ADMINISTRATION I (On Demand)

Catalog Description:

This course provides students with computer network administrative techniques in a currently popular network operating system. Students will install local area network equipment and software. Attention is given to the common tasks of daily administration of a local area network, such as creating user accounts, assignment of user accounts to groups, administration of file and folder permissions, user rights, system performance monitoring, and other routine administrative tasks. Outside lab time will be required.

Prerequisites:

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 Networking
- Students who wish to enhance their understanding of computer Networking
- Community members or professional who wish to expand their understanding of Windows Server operating system

Student learning Outcomes:

Students will be able to apply the knowledge gained to successfully:

- Install, Configure, Operate and Maintain a Windows server
- Configure Active Directory and Domain Name Service
- Use Active Directory to
 1. Manage Organizational Units
 2. Manage Users/Group/Computer Accounts
- Configure local and group policies
- Install and manage hardware resources including appropriate device drivers, patches and updates
- Manage data storage and file systems
- Administer and manage group policy
- Monitor Network Performance
- perform backups and system recovery

Topics:

- Operating system installation and management
- Active Directory
- Organizational Units
- Server Roles
- User account creation and management
- Local and group policy development
- Authentication methods

- Updates and patches
- Access controls
- Logging and auditing
- System performance and management
- Virtualization
- Backup and Restoring Data
- File systems configuration and security
- Network configuration
- Powershell and command line interfaces
- TCP/IP
- DNS
- DHCP

Forms of Assessment:

Lecture, lab assignments, homework assignments, online content in Blackboard, discussions, hands-on activities, quizzes, projects and exams.

Students will demonstrate proficiency by scoring 70% or above on all homework, projects, quizzes, exams and lab assignments.

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