

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

NTWK 2063 ADVANCED TOPICS FOR NETWORKING (On Demand)

Catalog Description

This course provides students with the knowledge and practical experience to analyze a business, select the most appropriate network operating system, design the network and perform an installation of a scalable network that provides end-user connectivity to local and remote servers. Students will be expected to demonstrate use of skills and knowledge acquired in previous courses. (Outside lab time will be required.)

Prerequisites

NTWK 2013 Networking and Information Systems
NTWK 2023 Network Administration I

Credit Hours: 3 credit hours, which count towards an AAS in CIS in any of the following areas of specialization:
Computer Networking

Target Audience and Transfer

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

- Students pursuing a career in Networking or other computer-related field
- Students who wish to enhance their understanding of network design
- Community members or networking professionals who wish to expand their understanding of what business and technical decisions lead to network design decisions and actual implementation

This course does not transfer to the University of Arkansas, Fayetteville, AR.

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 life longpursuit of knowledge.

Core Course Objectives for all NWACC sections of this course establish that a successful student will be able to perform the following tasks in a Windows 2000 Server environment:

- Evaluate the business environment as it relates to computer network design with specific consideration of the following: business culture, management style, budget constraints
- Evaluate the technical environment as it relates to computer network design within the business parameters
- Construct a viable network design based upon the business and technical considerations
- Construct a plan for implementation of the design

Required/Optional Texts and Student Resources

Required:

MCSE Windows 2000 Network Infrastructure Design Study Guide, Bill Heldman.
Publisher: Sybex. San Francisco, CA: 2000.

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

- Analyzing the Business Model
- Analyzing the Organizational Structure
- Evaluating Factors That Influence Business Strategy
- Analyzing the IT Management Structure
- Evaluating the Technical Environment

- Anticipating the Impact of Infrastructure Design
- Analyzing Client Access Requirements
- Analyzing the Current Disaster Recovery Strategy
- Designing a Management and Implementation Strategy for Windows 2000 Networks

Optional Coverage

- Building a Distributed File System Strategy
- Designing for Internet Connectivity
- Designing a Remote Access Solution
- Planning a Virtual Private Network (VPN) Implementation