

**NorthWest Arkansas Community College
Business & Computer Information Systems Division**

Computer Information Department Course Outline

NTWK 2063 ADVANCED TOPICS IN 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 2014 Networking and Information Systems
NTWK 2023 Network Administration I

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 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.

Student Learning Outcomes

Upon completion of this course, student will:

- Construct a viable network design based upon the business and technical considerations
- Construct a plan for implementation of the design
- 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.
- 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
- Develop the skills and attitudes necessary for the attainment of academic and career goals.
- Utilize reading, writing, and listening skills.
- Demonstrate time management ability by utilizing lab time as needed, and turning in assignments by due date.
- Define and address the network needs of business and government offices at a time when information security is vital.
- Define the need for awareness of legal aspects of developing networks by a review of Homeland Security topics, as well as FERPA and HIPAA laws.

Forms of Assessment

A comprehensive final exam will be required, projects, labs.