

Course Outline

MSFT-299

Fundamentals and Practice for Network+ Certification

3 Semester Hours

HOWARD COMMUNITY COLLEGE

Description

This course is designed to give students the knowledge and experience to install and configure the TCP/IP client, and design, install and configure computer networks.

Prerequisite: CMSY-134, CMSY-142, and CMSY-143 (1 credit self-paced or online courses)

Overall Course Objectives

Upon completion of this course the student will be able to:

1. Define the various types of computer networks
2. Define the various types of computer network topologies
3. Identify the various components of a computer network
4. Understand computer network architecture
5. Understand the characteristics of various network operating systems
6. Define various network standards
7. Define various network protocols
8. Understand the elements of network connectivity
9. Design and install a computer network
10. Establish network shares and accounts
11. Ensure network security
12. Configure network printers
13. Administer change in the network environment
14. Troubleshoot a network

Major Topics

- I. Introduction to Networking
- II. Basic Network Media
- III. Understanding Network Architecture
- IV. Survey of Network Operating Systems
- V. Introduction to Network Standards
- VI. Defining Network Protocols
- VII. Elements of Network Connectivity
- VIII. Designing and Installing a Network
- IX. Establishing Network Shares and Accounts
- X. Ensuring Network Security
- XI. Printing on a Network
- XII. Administering Change
- XIII. Troubleshooting a Network

About Certification Curriculum at HCC

When a student takes a certification course at HCC, that student usually receives more instruction time than they would receive in other formats. Therefore, while taking certification courses at HCC, the student may expect not only instruction from certification materials but additional academic and practical exercises and course work to better equip the student not only for the corresponding certification exam but for eventual utilization in their professional endeavors.

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following: two quizzes or exams and one lab activity.

Other Course Information

This course is a Network Administration core course.

This course is also intended for students who wish to become Network+ Certified.