



# Broward Community College

## Course Outline

STATUS:   A  

COMMON COURSE NUMBER:   CNT2012C  

COURSE TITLE:   Network Administration  

CREDIT HOURS:           3          

**CONTACT HOURS BREAKDOWN:**

Lecture/Discussion           32          

Lab           32          

Other           00          

Contact Hours/Week           3          

**CATALOG COURSE DESCRIPTION:**

Prerequisite:    CET 2489C

Corequisite:     NONE

This course is designed to teach advanced network administration. Topics will include the design and implementation of NDS, advanced netware installation and migration, advanced netware files system and security, and advanced network printing. Basic knowledge of microcomputer networking is required.

General Education Requirements - Associate of Arts Degree, meets Area(s):  
General Education Requirements - Associate in Science Degree, meets Area(s):

**UNIT TITLES:**

1. Introduction to Netware 4
2. Understanding NDS
3. NDS Preparation
4. NDS Design
5. Advanced Netware Installation
6. Advanced Netware Migration
7. Advanced Netware File System
8. Advanced Netware Security
9. Advanced Netware Printing

## **I. Course Overview:**

Upon successful completion of this course, the students should be able to demonstrate knowledge of NDS, Netware Installation, Netware File Systems and Security and Printing.

## **II. Units:**

### **Unit 1. Introduction to Netware**

#### General Outcome:

- 1.0 The students should be able to describe the concept and components of Netware 4.

#### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 1.1 Describe the concept of Netware Directory Services.
- 1.2 Describe the concept of Netware 4 Enhanced File System.
- 1.3 Describe the concept of Netware 4 Security.
- 1.4 Describe the concept of Netware 4 Utility Management.
- 1.5 Describe the concept of Netware 4 Configuration.
- 1.6 Describe the concept of Netware 4 Management..
- 1.7 Describe the concept of Netware 4 printing.

## Unit 2. Understanding NDS

### General Outcome:

2.0 The students should be able to describe the components of NDS.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 2.1 Discuss the difference between the bindery and NDS.
- 2.2 Describe NDS objects.
- 2.3 Use NDS naming conventions.
- 2.4 Implement NDS partitioning.
- 2.5 Describe NDS Time Synchronization.
- 2.6 Relate NDS time synchronization to the microprocessor-based design of network cards.

### Unit 3. NDS Preparation

#### General Outcome:

3.0 The students should be able to describe the process of preparing and implementing NDS.

#### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

3.1 Describe the different phases of NDS preparation.

3.2 Describe the methods of gathering NDS information.

## Unit 4. NDS Design

### General Outcome:

4.0 The students should be able to design NDS structure.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

4.1 Discuss NDS naming standards.

4.2 Perform an NDS tree design.

4.3 Accomplish partition and replica design.

4.4 Accomplish time synchronization design.

4.5 Accomplish NDS accessibility design.

4.6 Discuss the voltage to frequency characteristics of various network cards.

## Unit 5. Advanced Netware Installation

### General Outcome:

5.0 The students should be able to install netware server and client software.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 5.1 Describe netware installation.
- 5.2 Perform netware 2 types of server installs and upgrade install from 3.x.
- 5.3 Perform netware client installation, including DOS, Microsoft Client, and Novell Client 32.

## Unit 6. Advanced Netware Migration

### General Outcome:

6.0 The students should be able to implement the different types of netware for migration.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 6.1 Describe the advantages and disadvantages of each installation method.
- 6.2 Implement netware in place and across wire upgrade.
- 6.3 Describe netware migration and its implementation.

## Unit 7. Advanced Netware File System

### General Outcome:

7.0 The students should be able to describe the netware file system.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 7.1 Describe and set up the netware file system.
- 7.2 Manage the netware file system.
- 7.3 Describe netware drive mapping.

## Unit 8. Advanced Netware Security

### General Outcome:

8.0 The students should be able to describe the different netware security layers.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 8.1 Discuss the netware security model.
- 8.2 Describe logins/password authentication.
- 8.3 Set up login restrictions.
- 8.4 Implement NDS security.
- 8.5 Describe file system access rights and implement.
- 8.6 Describe file/directory attributes.
- 8.7 Describe netware auditing.

## Unit 9. Advanced Netware Printing

### General Outcome:

9.0 The students should be able to describe and implement Netware printing.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 9.1 Describe and install Netware printing.
- 9.2 Describe Netware printing management.
- 9.3 Describe the future of printing - NDPS.