



**I. COURSE DESCRIPTION:**

This course continues the study of LANs and popular Network Operating Systems with the emphasis being on the development of hands-on skills in network administration. A detailed study of Microsoft Windows NT as well as additional topics in Novell Netware 4.11 and NDS (Novell Directory Services) are the major components of this course. Developing practical skills in LAN administration, installation and troubleshooting is an important objective.

**II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:**  
(Generic Skills Learning Outcomes placement on the course outline will be determined and communicated at a later date.)

**A. Learning Outcomes:**

1. Perform installation, management and troubleshooting tasks on a Windows NT network.
2. Perform management and troubleshooting tasks on a Novell Netware v4.11 (Intranetware) network.

**B. Learning Outcomes and Elements of the Performance:**

Upon successful completion of this course the student will demonstrate the ability to:

1. *Perform installation, management and troubleshooting tasks on a Windows NT Server network.*

**Elements of the Performance:**

- Identify and describe the requirements, main features and terminology of the Windows NT Server Operating system.
- Distinguish between domains and workgroups and appropriately specify their use in various situations.
- Plan and manage NT Server users and groups.
- Install Windows NT Server in a variety of configurations.

- Install and manage NT client software.
- Manage and monitor NT Server.
- View, backup and edit a Registry.
- Manage NT disk and file systems, create shares and set permissions.
- Manage NT print services.
- Prepare a contingency plan and recover from server failure, using backups and other methods.
- Terminate and test various LAN cables.

*This learning outcome will constitute approximately 70% of the course.*

**Reference: "Microsoft Windows NT Server 4.0" by Peter Brierley**

2. **Perform installation, management and troubleshooting tasks on a Novell Netware v4.1 (Intranetware) network.**

**Elements of the Performance:**

- Recall NDS (Netware Directory Services) concepts. (Review)
- Manage users and groups in a Netware 4.11 environment.
- Manage trustee assignments and file attributes.
- Install Netware printing support.
- Compare NT Server features and services with Novell's Intranetware.
- Configure NT Server for interoperability with Netware servers by using various tools.
- Manage a Netware 4.11 network including backups and remote management.
- Manage NDS partitions, time synchronisation and replication.

*This learning outcome will constitute approximately 30% of the course.*

**Reference:**

**"Network Administrator, Netware 4.1" by Ted Simpson , David Auer, and Mark Ciampa (Course Technology, Inc 1997, ITP)**

**III. TOPICS TO BE COVERED:**

1. Windows NT Server 4.0 installation, management and configuration.
2. Netware v4.11 (Intranetware) server management and configuration.
3. Backup, security and network management in NT and Netware environments.

IV. REQUIRED STUDENT RESOURCES/TEXTS:

TEXT BOOK:

- "Microsoft Windows NT Server 4.0" by Peter Brierley (Course Technology, New Perspective Series)
- Netware 4.11 "Network Administrator, Netware 4.1" by Ted Simpson, David Auer, and Mark Ciampa (Course Technology, Inc 1997, ITP) (purchased for CSN202)

V. EVALUATION PROCESS/GRADING SYSTEM:

3 WRITTEN TESTS	60%
QUIZZES	15%
LAB ASSIGNMENTS	25%

(The percentages shown above may vary slightly if circumstances warrant.)

**NOTE:** *It is necessary to pass both the theory and the lab part of this course. It is not possible to pass the course if a student has a failing average in the three written tests but is passing the lab portion, (or vice versa).*

**GRADING SYSTEM**

A+	90	-	100%
A	80	-	89%
B	70	-	79%
C	60	-	69%
R	Repeat		Less than 60%
X	Incomplete		

**UPGRADING OF INCOMPLETES**

When a student's course work is incomplete or final grade is below 60%, there is the possibility of upgrading to a pass when a student meets all of the following criteria:

1. The student's attendance has been satisfactory.
2. An overall average of at least 50% has been achieved.
3. The student has not had a failing grade in all of the theory tests taken.
4. The student has made reasonable efforts to participate in class and complete assignments.

The nature of the upgrading requirements will be determined by the instructor and may involve one or more of the following: completion of existing labs and assignments, completion of additional assignments, re-testing on individual parts of the course or a comprehensive test on the entire course.

**LABS:**

Lab activities represent a very important component of this course. Because of this, **attendance is mandatory** and the satisfactory completion of all lab activities is required. *It is the student's responsibility to discuss absences from regularly scheduled labs with the instructor so that alternate arrangements (where possible) can be made to complete the lab requirements.*

Required lab report requirements will be detailed before labs are assigned. A late penalty will be applied for labs handed in past the due date.

**ATTENDANCE:**

Absenteeism will affect a student's ability to succeed in this course. Absences due to medical or other unavoidable circumstances should be discussed with the instructor.

**VI. SPECIAL NOTES:**

- **Special Needs**  
Students with special needs (e.g. physical limitations, visual or hearing impairments, or learning disabilities) are encouraged to discuss any required accommodations confidentially with the instructor and/or contact the Special Needs Office so that support services can be arranged.
- **Retention of Course Outlines**  
It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other post-secondary institutions.
- **Course Modifications**  
Your instructor reserves the right to make reasonable modifications to the course as deemed necessary to meet the needs of students or take advantage of new or different learning opportunities.

**VII. PRIOR LEARNING ASSESSMENT:**

Students who wish to apply for advanced standing in the course should consult the instructor. This course is not eligible for challenge at the present time.

