

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: LOCAL AREA NETWORKS II

Code No: CSN203 Semester: 4

Program: COMPUTER NETWORK TECHNICIAN

Author: Tycho Black

Date: January, 1998 Previous Outline Dated: _____

Approved:


Dean

97-01-05
Date

Total Credits: 6

Prerequisites: CSN202

Length of Course: 16 Weeks Total Credit Hours: 96



I. COURSE DESCRIPTION:

This course continues the study of LANs and popular Network Operating Systems with the emphasis on administrative hands-on skills. A detailed study of Microsoft Windows NT Server and Workstation as well as Novell Netware 4.11 and its 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:**A. Learning outcomes:**

1. Perform installation, management and troubleshooting tasks on a Windows NT network.
2. Perform installation, 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 use Windows NT workstation.
- Install and configure Internet Information Server (IIS).

- 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.

This learning outcome will constitute approximately 60% 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:

- Describe Novell Directory Services (NDS) components and benefits.
- Plan and create an NDS Directory tree and manage the network file system
- Install Netware 4.11
- Install Netware client software.
- 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.

This learning outcome will constitute approximately 40% of the course.

Reference: Instructor's Notes and web-based resources.

III. TOPICS TO BE COVERED:

1. Windows NT Server 4.0 installation, management and configuration.
2. Netware Directory Services (NDS).
3. Netware v4.11 (Intranetware) server installation and management.
4. 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 (Notes provided)

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	55	-	69%
R	Repeat	Less than	55%
X	Incomplete		

UPGRADING OF INCOMPLETES

When a student's course work is incomplete or final grade is below 55%, 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 45% 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

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.