

A: Division: **INSTRUCTIONAL** Date: **MAY 1997**  
 B: Faculty: **COMMERCE AND BUSINESS ADMINISTRATION** New Course: **X**  
 Program: **COMPUTER INFORMATION SYSTEMS** Revision of Course Information form:  
 C: **CISY 445** D: **NETWORKING AND COMMUNICATIONS II** E: **3**

Subject & Course No.	Descriptive Title	Semester Credit
CISY 445	NETWORKING AND COMMUNICATIONS II	3

<p>F: Calendar Description: This course will provide a hands-on look at Local Area Networking (LAN) operating systems. The student will be introduced to a variety of Network Operating Systems (NOS) with a detailed look at Windows NT, and Novell. Student will receive a practical administrative understanding of setting up and administering these operating systems.</p>	<p>Summary of Revisions:</p>
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G: Type of instruction: Hrs per week

Lecture:	2	Hrs.
Laboratory:		Hrs.
Seminar:	2	Hrs.
Clinical Experience:		Hrs.
Field Experience:		Hrs.
Practicum:		Hrs.
Shop:		Hrs.
Studio:		Hrs.
Student Directed Learning:		Hrs.
Other (Specify)		
<b>Total:</b>	<b>4</b>	<b>Hrs.</b>
<b>Semester Total (4 x 15 wks):</b>	<b>60</b>	<b>Hrs.</b>

H: Course Prerequisites:  
**CISY 345 or CISY 440**

I: Course Corequisites:  
**nil**

J: Course for which this Course is a Prerequisite:  
**nil**

K: Maximum Class Size:  
**35**

L: College Credit Transfer

College Credit Non-Transfer

Non-Credit

M: Transfer Credit: Requested:  Granted:

Specify Course Equivalents or Unassigned Credit as appropriate:

BCOU  
SFU  
UBC  
UNBC  
UVIC  
Other:

Course Designer(s): *B. Coolidge & S. Stephens*  
 Dean: *J. Sator*

Vice-President, Instruction: *J. McKendry*  
 Registrar: *P. Angus*

**N: TEXTBOOKS AND MATERIALS TO BE PURCHASED BY STUDENTS**

Instructor will specify appropriate technical manuals.

**O: COURSE OBJECTIVES**

The student will be able to:

1. explain the importance of local area networks (LANs), and explain their uses;
2. explain the importance of an organization having a set of LAN system policies;
3. specify and configure local area network hardware for LANs of all sizes;
4. identify the LAN operating system alternatives; explain and apply the criteria for selecting a LAN operating system;
6. install and configure LANs using Windows NT Server, Novell Netware, and at least one other network operating system.
7. explain the importance of LAN management, and know the names, strengths and weaknesses of the major LAN management tools.

**P: COURSE CONTENT**

1. Review of LAN terminology, importance of data communications.
2. LAN Hardware - components required, server, workstation, disk storage, network interface card, wiring, wiring centre.
3. LAN Software - configuring a server - file system, user accounts, security services.
4. LAN services - E-mail, file sharing, printing, applications, Internet access, modem access.
5. Workstation configuration -- user accounts; user groups; login scripts; user profiles.
6. Installation and configuration of LAN print services.
7. Installation and configuration of LAN file services.
8. Installation and configuration of applications on LAN servers and workstations.
9. Installation and configuration of LAN security and backup systems.

10. Installation and configuration of LAN services: E-mail, Internet access, modem access.
11. Netware utilities: SETUP, NDS, PCONSOLE, CONSOLE, etc.
12. NT utilities: NTFS (NT file service), Directory Service, Performance Monitor, Backup Services, RAS (Remote Access Service), etc.
13. Network management and troubleshooting: tools, checklist, on-line services from the vendors.

**Q: METHOD OF INSTRUCTION**

Lecture and seminar.

**R: COURSE EVALUATION**

Assignments/Project (1-4)	10%-20%
Quizzes (1-4)	10%-20%
Midterm Examination	25%-30%
Final Examination	25%-30%
Participation	<u>0%- 10%</u>
	<u>100%</u>

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