

**JOLIET JUNIOR COLLEGE
DEPARTMENT OF COMPUTER INFORMATION
AND OFFICE SYSTEMS**

COURSE SYLLABUS

Course Prefix and Number	CIS 145
Course Title	Fundamentals of Networking
Curriculum	Computer Information Systems
Semester Hours	3
Lecture	3
Lab	0
Prerequisites	None

Catalog Description

This course discusses the basic concept of Local Area Networking. Topics include networking overview, sharing computer resources, using E-mail, using file servers, protocols, different networking software, how to manage your network and an introduction to Wide Area Network.

Course Objectives: See attached.

Prepared by:

Reviewed by:

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Revised 7/05
Revised 5/03
Revised 8/01
Updated 12/00
Revised 10/98

Ram Raghuraman
Department Chairperson

Date

STUDENT MATERIALS

A. Textbooks:

Title: Data Communications and Computer Networks, 4th Edition

Author: Curt White

Publisher: Course Technology

B. Other Required Materials

One 3 1/2" high density disk

Other Course Requirements

Student Evaluation (Type of Grading)

Evaluation, grading and attendance policies are established by the individual instructor. Class projects and class participation will also be evaluated. A comprehensive final exam will be given.

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FORM C, Part II: TOPICAL OUTLINE

Course Prefix and Number: CIS 145 Title: Fundamentals of Networking

Week	Unit, Topic, Class Activity (Indicate approximate time allotment for each topic/unit)	Comments
1	Chapter 1, <i>Introduction to Computer Networks and Data Communications</i>	
2	Chapter 2, <i>Fundamentals of Data and Signals</i>	
3	Chapter 3, <i>Conducted and Wireless Media</i>	
4	Chapter 4, <i>Making Connections</i>	
5	Chapter 5, <i>Multiplexing: Sharing a Medium</i>	
6	Chapter 6: <i>Errors, Error Detection, and Error Control; Numbering Systems (see PowerPoint Slides)</i>	
7	Chapter 7, <i>Local Area Networks: The Basics</i>	
8	MIDTERM EXAM	
9	Chapter 8, <i>Local Area Networks: Internetworking</i>	
10	Chapter 9, <i>Local Area Networks: Software and Support Systems</i>	
11	Chapter 10, <i>Introduction to Metropolitan Area Networks and Wide Area Networks</i>	
12	Chapter 11, <i>The Internet</i>	
13	Chapter 12, <i>Telecommunications Systems</i>	
14	Chapter 13, <i>Network Security</i>	
15	Chapter 14, <i>Network Design and Management</i>	
16	Final Exam Review	
17	FINAL EXAM	

OBJECTIVES

At the completion of this course, the students will:

1. Learn the fundamental data communications concepts.
2. Understand the function of common telecommunication and networking terminology.
3. Become familiar with business networking software and recognize advantages and disadvantages that exist between them.
4. Become more aware of the different types of communications networks in use in the business world.