

Sault College  
of Applied Arts and Technology  
sault ste. marie

Course Outline

TELECOMMUNICATIONS  
and  
FUTURISTICS

EDP216-3

*Received by  
students  
Feb 8/83  
Jodi Wied*

NEW  
~~REVISED~~ January 1983 - Jodi Wied

## COURSE OUTLINE

PROGRAM OUTLINE: Electronic Data Processing

TITLE OF COURSE: Telecommunications & Futuristics

COURSE NO: EDP216-

INSTRUCTOR: Jodi Wied

DATE: January 1983

---

### Course Description:

A study of the process of transmission, processing and distribution of information using computers and telecommunication hardware and facilities. Future implications will be introduced including an investigation of TELIDON and its implications for the information society.

### Aim:

To familiarize students with concepts and terminology as they apply to the expanding field of communications using computers and telecommunication technology. The course is also aimed at providing students with an awareness of the information society and the applications of telecommunications theory in this changing environment.

### Student Evaluation:

Tests and Quizzes	80%
Participation	<u>20%</u>
	100%

### Text:

Data Communications and Teleprocessing Systems  
Trevor Housley, Prentice Hall, 1979

### References:

Introduction to Computers and Data Processing - CH8 -  
Shelly and Cashman

Computers and Life  
J. Frates and Wm. Moldrup

SPECIFIC OBJECTIVES

<u>TOPIC</u>	<u>REFERENCE</u>	<u>CONTENT</u>
1	Shelly & Cashman Chapter 8	<u>Introduction to Telecommunications</u> 1)Basic Configuration -transmitter -modem -channels (data links) -C.C.U.(communication control unit) -function of the computer  2)Overview of Terminology -per speeds -modes of transmission -line types & configuration -types of networks
2	Housley Chapter 1	<u>Basic Theory</u> -transmission definitions -transmission codes and control characters -transmission modes
3	Housley Chapter. 2	<u>Network Components &amp; Configurations</u> -Hardware: terminals, modems, multiplexers, interfaces, etc. -Configurations: star, ring, pt-to-pt and multipoint etc.
4	Housley Chapter 3	-error detection techniques
5	Housley Chapter 4	-network protocols -line control procedures
6	Housley Chapter 5	<u>Common Carrier Facilities</u> -networks -packet switching, etc.

<u>OPIC</u>	<u>REFERENCE</u>	<u>CONTENT</u>
7	Housley Chapter 6	-system planning considerations
8	Industry Periodicals & research papers Computers & Life	<u>Information Society</u> -TELIDON -office automation -electronic mail -micros and home computers
9	Industry periodicals & research papers Computers & Life	<u>Special Applications</u> -ROBOTICS, Process Control, -CAD/CAM -CAI, CMI -EFT -Medicine, etc.