

**NORTHEASTERN TECHNICAL COLLEGE
COURSE OUTLINE**

COURSE:	PREFIX	NO:	EFFECTIVE DATE	NEXT REVIEW DATE
	IST	220	JANUARY, 2005	JANUARY, 2006
TITLE:			CREDITS	CONTACTS
				CLASS - LAB - TOTAL
DATA COMMUNICATIONS			3	3 0 3
PREREQUISITES: CPT 114 with a grade of "C" or better				

DESCRIPTION: This course is a study of the fundamentals of Data Communications, Basic signaling, networking, and various transmission media are covered.

TEXTBOOK(S) OR ALTERNATIVE: Business Data Communications - Introductory Concepts and Techniques, 4th Edition, Shelly, Cashman, & Shelly, Course Technology, 2004.

COLLATERAL READING:

MATERIALS (specifying those to be purchased by student):

CLASS MANAGEMENT ACTIVITIES (Attendance, tardies, testing, etc.):

Academic Dishonesty:

The College expects each student to do his/her own work; if academic dishonesty occurs, disciplinary action will be taken. Academic dishonesty includes, but is not limited to cheating, plagiarism, collusion, and falsification of information. Please refer to the NETC Student Code and Grievance Procedure for a definition of academic dishonesty and an outline of the disciplinary action that may result therefrom.

Attendance:

The student will be dropped after missing 20% of the scheduled class sessions. Absences will be excused only in emergencies and must be documented. In the event that the student misses more than the allowable absences, the Instructor, who will complete a withdrawal form, with a grade of "F", will drop the Student. If the student wishes to withdraw from the class, the student must complete a withdrawal form which can be found in the Student Development Office of the College. The student will receive a grade of "W" if the work completed to date is acceptable; a grade of "WF" will be assigned if the work is unacceptable.

Tardy Policy:

Realizing that regular attendance in classes is a contributing factor toward academic success, it is also important that students arrive promptly for classes. Arriving late for a class not only disrupts a class in progress but interrupts the learning process. A student is considered tardy if not present for roll call which is taken at the beginning of the period. Three tardies will constitute one full absence.

Statement On Written Assignments:

The instructor reserves the right to refuse any paper which is messy or unreadable or appears to be copied. Incorrect grammar

and spelling errors will be noted. Papers will be graded on the basis of content, organization, grammar, spelling, and neatness. Papers containing any plagiarized material will result in a grade of "F". (Division of Arts and Sciences)

Classroom Etiquette:

An integral part of an education is developing a sense of integrity and responsibility not only toward ourselves but to others. In the classroom, as on the job or in your home, exhibiting appropriate behavior reflects on your maturity. Arriving late to class, being unprepared, inappropriate talking while class is in session, etc. negatively reflect on you and your fellow students. Please be considerate.

DISABILITIES STATEMENT:

Students with disabilities are encouraged to contact the Vice President for Student Services to discuss needs or concerns as they pursue an academic program and participate in campus life. The Vice President for Student Services will provide guidance regarding official documentation of disabilities and/or accommodation of needs. (See College Catalog).

RESOURCES (A-V, persons, tools/equipment):

1. Audio Visual Aids
2. Computer Systems

COURSE TOPICAL OUTLINE: (List topics and sub-topics of course) and Calendar or approximate length of time devoted to topic.

DATA COMMUNICATIONS TENTATIVE CLASS TOPICS

WEEK	TOPIC
1	What is Data Communications?
2	Fundamentals of Data Communications
3	Media, Servers, and Clients in Communications
4	Communication Equipment
5	Data Transmission
6&7	Protocols
7&8	Network Concepts
9	WANS
10&11	LANS
11&12	Network Security
12&13	The Internet
14&15	Communication Services
16	EXAM

All tests will be assigned during the semester. Each project will be given a due date.

IMPORTANT

All students will be explained the licensing agreement stating that the software used in this course does not belong to them or to the college and that any attempt to copy, change, or modify this software in any way by any means is a violation of law.

COLLEGE-WIDE STUDENT COMPETENCY:

The student will be able to identify and use sources of information by utilizing information processing skills compatible with job demands in a computer-literate society.

OBJECTIVES OF COURSE: The student will demonstrate knowledge of the following concepts:

1. Fundamentals of data communications
2. Basic Network configurations
3. Understanding of the difference between data communications and telecommunications
4. Give practical examples of networks
5. Fundamentals of communications media
6. Hardware configurations within networks
7. Data transmissions
8. Systems network architecture
9. Internet

INSTRUCTIONAL METHODS TO COMPLETE OBJECTIVES:

Lecture
Demonstration
Handouts
Assignments

EVALUATIVE METHODS TO APPRAISE OBJECTIVES: The student will be given lab assignments and projects during the term as the concepts are presented in lecture or in the lab. The final grade will be determined by the following percentage weight system:

85% - Tests
15% - Final Exam

The grade point scale that will be used is as follows:

A = 90 - 100
B = 80 - 89
C = 70 - 79
D = 60 - 69
F = Below 60

Instructor Expectations:

- Student must read the material prior to class
- Turn in all assignments on a timely basis
- Present all work in a professional manner
- Attentive to class lectures
- Student must be inquisitive