

**Grande Prairie Regional College
Department of Fine Arts**

Multimedia Networks / Internet

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Course Description

This course is designed to give students an understanding and working knowledge of computer networks and their use as a tool for communication and interactivity. Networks are dramatically reshaping our society and it is imperative that they be understood by all students in both the Sciences and the Liberal Arts.

The course will be modular in nature with a focus on the use of TCP/IP based networks. It will include an introduction to the Macintosh computer (OS, Hardware, Networks), the fundamentals of the Internet and the design, authoring and implementation of server applications for the Internet.

Objectives

After completion of this course students will:

1. have an understanding of the Macintosh hardware and software
2. have explored and gained an understanding of the concepts behind and the potential of the Internet as a tool in all areas of culture and society.
3. be able to use the internet Client tools such as FTP, Telnet, E-Mail and Gopher.
4. be able to configure and use browsers to search for and access text and multimedia information on the Web
5. be able to author and maintain a well designed Web server on the Internet as a means of personal and creative communication.

Grade Assignment

Assessment will be based on assignments and examinations within each module.

module	description	percent of final
1	Basic Macintosh skills	5
2	Network Concepts	20
3	InterNet Browser Applications	10
4	Effective communication via the Internet	20
5	Web Portfolio	45

Note: More than 10% absenteeism may constitute a failure except for medical or extenuating circumstances in which case a doctor's letter will be required.
Lateness will be noted.

Module One

1. Basic Macintosh skills
 - a. Basic operations
 - b. Macintosh Programs
 - c. Macintosh Hardware
 - d. Trouble shooting
 - e. Exchanging Files with DOS or Windows
 - f. SoftWindows

Module Two

1. Macintosh Networking
 - a. Appletalk
 - b. Ethernet

Module Three

1. Network fundamentals
 - a. History
 - b. Concepts
2. Signing On
 - a. Terminal Emulation
 - b. Internet Service Providers
3. Client Applications
 - a. E-Mail
 - b. Maillists
 - c. Remote Access

Module Four

1. Network Server Applications
 - a. Establishing connection
 - b. Mailserv
 - c. FTPD
 - d. Telnet

Module Five

1. World Wide Web
 - a. History
 - b. Mosaic and Netscape
 - c. Servers
 - d. Authoring

Module Three

1. Network fundamentals

a. History

1. hype and reality
2. ARPANET BITNET etc.
3. growth

b. Concepts

1. Client/ Server computing
2. packet switching
3. protocol
4. TCP/IP
5. shell accounts
6. Slipp / PPP
7. T1, T3
8. management

2. Signing On

a. Terminal Emulation

1. Vax accounts
2. Linx
3. Local Bullentin Board

b. Internet Service Providers

1. Dial-up
2. Custom Communication
3. Terranet
4. Planetnet
5. Supernet
6. Schoolnet

3. Client Applications

a. E-Mail

1. vax mail
2. Pine
3. Eudora
4. Structure of message
5. Etiquette
6. Locating
7. Junk

b. Maillists

1. electronic journals
2. discussion groups
3. Usenet newsgroups
4. maillists, Listserv

c. Remote Access

1. Telnet
2. FTP
3. Gopher, ARCHIE and Veronica

Module One

1. Basic Macintosh skills

a. Basic operations

1. Desktop model
2. Using the mouse
3. Menus
4. Windows
5. Icons
6. Keyboard

b. Macintosh Programs

1. Applications
2. Operating system

c. Macintosh Hardware

1. Ports
2. Monitors
3. SCSI
4. ADB
5. Headphones
6. Microphone
7. CD
8. Expansion

d. Trouble shooting

1. Screen
2. memory
3. mouse
4. restart
5. frozen
6. startup
7. damaged disks
8. Program not found

e. Exchanging Files with DOS or Windows

1. Formatting DOS disks
2. PC Exchange

f. SoftWindows

Module Two

1. Macintosh Networking

a. Appletalk

1. turning on
2. selecting network
3. setting ownership
4. setting up file sharing
5. users and Guests
6. selecting folders or disk to share
7. registering uses
8. monitoring use
9. disconnecting users
10. user access privileges
11. linking programs

b. Ethernet

Module Four

1. Network Server Applications

- a. Establishing connection
 - 1. T1, 56k, 128k, service providers
 - 2. routers
 - 3. fire walls and security
 - 4. DNS
- b. Mailserv
- c. FTPD
- d. Telnet

Module Five

1. World Wide Web

- a. History
- b. Mosaic and Netscape
 - 1. Layout
 - 2. configure
 - 3. helpers
 - 4. urls
 - 5. ftp, mail, news
- c. Servers
- d. Authoring
 - 1. HTML
 - 2. Publishing
 - 3. anchors
 - 4. image compression
 - 5. backgrounds
 - 6. Style
 - 7. Etiquet
 - 8. Statistics