

# Web/CD Hybrid Model for the Distance Learning Environment

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# Distance Learning

*According to a National Center for Education Statistics Report (1999) [survey of over 3500 institutions ]*

- universities using distance learning:
- 78% of four-year
- 62% of two-year colleges and
- electronic learning was mostly at the individual course level rather than complete academic programs.
- estimated 1.6 million students across the nation took at least one course through distance learning
- presentation format of asynchronous computer based instruction
- approximately 83% of all electronic distance learning courses

# Internet

## Real estate

- Location
- Location
- Location

## Telecommunications

- Bandwidth
- Bandwidth
- Bandwidth

## Low Bandwidth:

- Text
- Pictures

## High Bandwidth

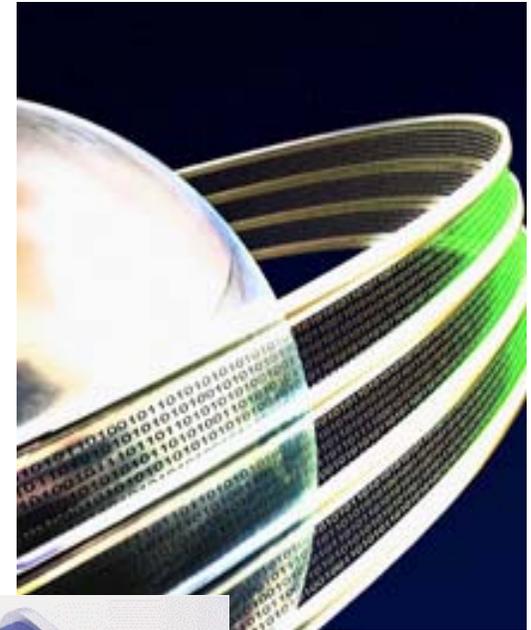
- Voice
- Sound
- Video
- Programs

## Other issues:

- Slow modems
- Connection issues

# Internet Access

- Campus network - live/work on campus
  - Why take distance learning?
- Cable modem
- Dial-up modem
- 6 million homes with broadband access,
  - nine percent of the households,
  - (NCTA 2001 & Cisco 2001)



# CD

- 650 MEG
- High Access Speed
- Drives standard in computers
- Holds data/programs/links





# Online Web Environment

- An allows instructors to have a course that:
  - Is easily updated
  - tracks where and how long students use
  - allows students to input information into discussion boards, online tests, or whiteboards.



# Course Based CD

- ▶ A CD can provide:
  - ▶ full screen,
  - ▶ non-delayed extended video and audio
  - ▶ access and review offline
  - ▶ play on devices other than a computer, such as a DVD or CD player.



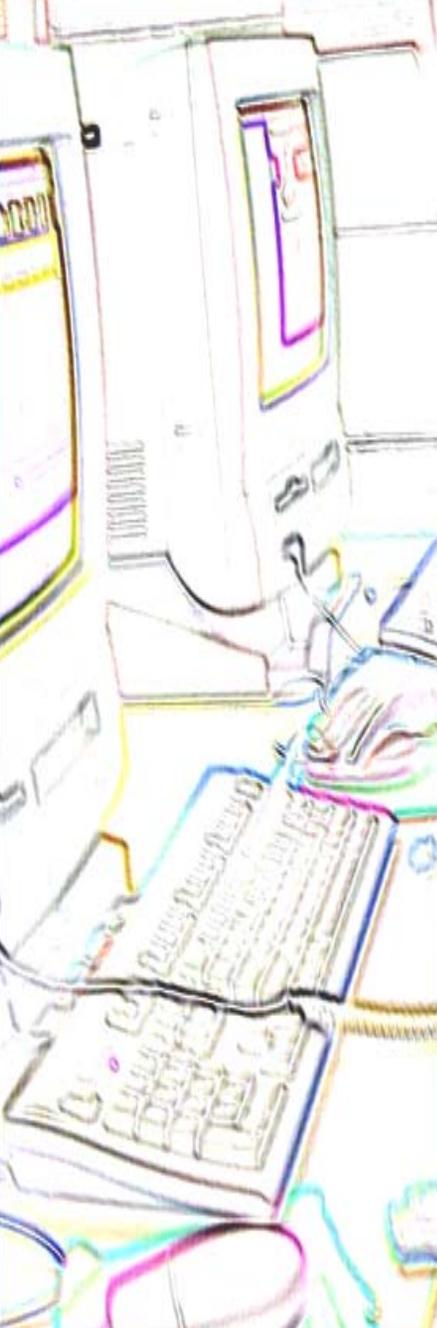
# Hybrid- Internet+CD

- melds the two delivery formats
- takes the advantages of both systems
- eliminates many of each format's shortcomings



# Hybrid Advantages

- Links to Timely Information
- Real-time Interaction
- Centralized Tracking of User Activity
- Testing Security
- High quality/volume audio/video/programs



## Internet based → Hybrid

- Identify “high-bandwidth” components
- Identify complex components
- Transfer these high-bandwidth files off the web server and place them on a CD, which is distributed to the students.



# CD based → Hybrid

- Determine needed online support
  - Interactivity
  - Assessment
  - Currency
- Create an online course site
- Place links onto the course's CD that direct students to the online environment.

# Hybrid online calling CD



➤ In course environment place link to call file from CD.

➤ Blackboard

➤ WebCT

➤ eLearn

➤ Internet

## User Preferences

### CD-ROM

In order to view off-line content, you will need to set your CD-ROM drive letter.

A: ▾

Set CD-ROM

My Institution

Courses

Academic  
Web Resources

Home Help Logout

COURSES > EME5403\_116

Announcements

Course Information

Staff Information

Course Documents

Assignments

Books

Communication

## Course Documents

Current Location: More resources

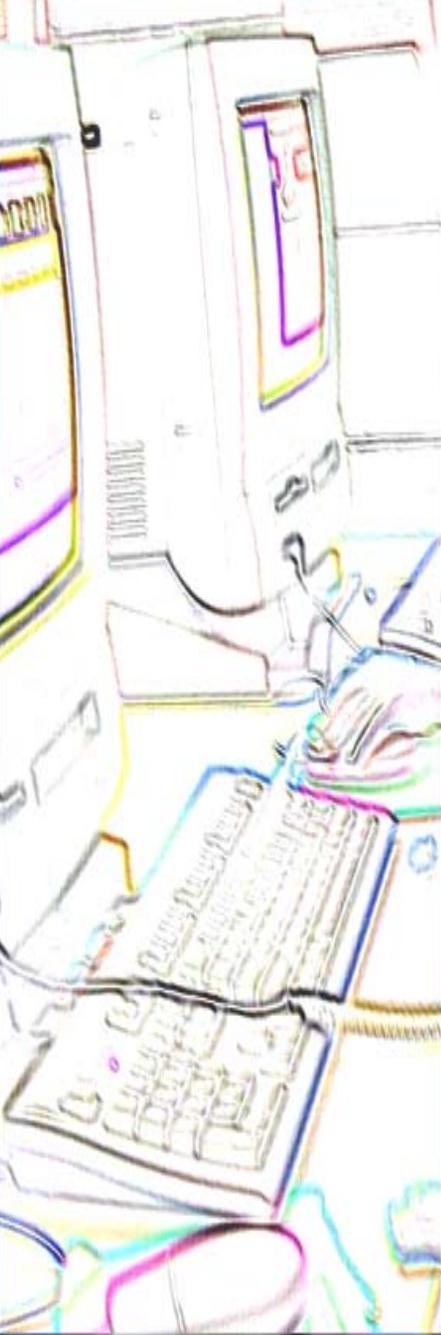
[ Top ] : [ [Session 2 - Week 2-3 \(Sept 2-15\)](#) ] : More resources



### The School Administrator as Educational Technology Leader

[Web page](#) ( Offline Content )

Article from Florida Educational Leadership Journal about the principal's role as an educational technology leader.  
etleader.htm



# Sample

- 147 megabyte mpeg streaming video
  - 30 seconds Cable Modem
  - 400 times that for a standard dial up modem
  - 2 seconds to start from a CD