

# Educational Technology: Websites

---

## Introduction

### Why websites?

- Wide scope - can be used in a variety of different ways
- “The Internet is becoming an increasingly vital tool in our society. More Americans are going online to conduct...day-to-day activities... Each year, being digitally connected becomes ever more critical to economic and educational advancement and community participation” - U.S. Department of Commerce, Economics and Statistics Administration et al (2000, p.xv)

# Educational Technology: Websites

---

## Educational Uses of the Internet

- Virtual textbook and reference library
  - [www.knovel.com](http://www.knovel.com)
  - Online Journals
- Virtual Tutor
- Virtual study group
  - Asynchronous communication
    - Bulletin boards, Email, File Exchange tools
  - Synchronous communication
    - Instant messaging, Audio & video conferencing, Virtual whiteboard
- Virtual locker, backpack and notebook
  - Syllabus, lecture notes, practice exams

# Educational Technology: Websites

---

## Benefits of a Course Web page

- “One-to-one” tutorial
- Can address a variety of learning experiences

# Educational Technology: Websites

---

<i>Learning Experience</i>	<i>Method/Technologies</i>	<i>Media Forms</i>
Attending, apprehending	Print, video	Narrative
Investigating, exploring	Library, Web resources	Interactive
Discussing, debating	Online conference, discussion board	Communicative
Experimenting, practising	Simulation	Adaptive
Articulating, expressing	Animation, model	Productive

# Educational Technology: Websites

---

## Benefits of a Course Web page

- “One-to-one” tutorial
- Can address a variety of learning experiences
- Can eliminate gaps in education
- Instructor can control resources

# Build Your Own Webpage

- Biochemistry Example:  
<http://www.bio.cmu.edu/Courses/03231/biochemF03.htm>
- Layout of student schedule with links to lectures, assignments, and HW on each day
- Incorporation of online 3-D chemical structure models
- Each to use and track online quiz

# Teaching and Learning Package

- [www.doitpoms.ac.uk/tlplib](http://www.doitpoms.ac.uk/tlplib)

# School / Template Webpage

- MIT / Stellar
  - <http://stellar.mit.edu/features/index.html>
  - Example Course Webpage:  
<http://stellar.mit.edu/S/course/5/sp06/5.95J/index.html>
- CMU / Blackboard

# Wiki Collective Webpage

- Example:
  - [http://openwetware.org/wiki/Main\\_Page](http://openwetware.org/wiki/Main_Page)
  - Course BE.109

# Other Technology

- Tablet PC
- Podcasts:  
<http://webcast.berkeley.edu/courses/feeds.php>
- Discussion Boards / Online Group Meetings
- Online Quizzes

# Using Technology

- Analyze
- Design and Develop
- Implement and Evaluate

# Analyze

- Define your instructional goals and objectives
- Analyze your audience.
- Analyze your current course.
- Analyze current course materials
- Examine if and how new technology / course webpage can help you meet your instructional goals and objectives.

# Design and Develop

- Plan strategies to integrate webpage into your instruction
- Design the structure and organizational scheme of your course site.
- Plan strategies for your course materials.
- Develop your course site structure.
- Upload existing course materials.
- Prepare materials for electronic delivery.
- ***The design and development phases occur very close together.***

# Implement and Evaluate

- Implement
  - Prepare your students to use your webpage / technology
  - Integrate technology into your instruction.
- Evaluate
  - Evaluate your webpage / technology and the strategies you employed.
  - Gather student feedback.
  - Seek additional evaluation resources.