Webster UNIVERSITY SCHOOL OF EDUCATION

POINTS OF INFLUENCE

Course Syllabus

EDTC 5330 W5	Dr. Pat Sager / psager@webster.edu
COURSE NUMBER AND SECTION	Casey Calhoun / kcalhoun@webster.edu
	INSTRUCTORS E-MAIL ADDRESSES
Evaluating Emerging Technologies	Spring 2005 / 3
COURSE TITLE	TERM CREDIT HOURS
Online	
SITE	

Course Description:

In this course the student is introduced to the basic concepts of emerging technologies. Emphasis is given to three primary functions: evaluation, selection, and integration of technology. Additional topics include: background of technology into teaching, planning and implementation for effective integration for classroom and school districts including aspects of distance learning resources and methods, websites and web pages and internet usage exploration as educational technologies, and use of emerging developments in technology for future use.

Course Objectives:

- To define and introduce students to the basic concepts and ideas in the field of educational technology for teaching.
- To provide a graduate level introduction to the evaluation, selection, and integration of emerging technology for classroom use.
- To expose students to the basic conceptual ideas associated with the field of integrating educational technology for teaching.
- To offer students the opportunity for an in depth project to study the framework for application of emerging technology in the classroom.

Resources:

Text:
M.D. Roblyer, ***2004 Update:*** *Integrating Educational technology into Teaching*: Merrill, Pearson Education, Inc., Prentice Hall, Third Edition, 2003.

To view the website that accompanies this text, please go to http://www.prenhall.com/roblyer

Class Outline:

Week 1

Read - Chapter 1: Pages 4-22

Topics:

- Background, Definition and Overview of Emerging Technology
- Role of Integrating Technology into Teaching
- Role of Theory in studying Educational Technology
- Historic development of Educational Technology and Emerging Technology
- Instructor introduction

Week 2:

Read: Chapter 2: Pages 27-78

Topics:

- Models for thinking about Educational Technology
- Planning Assessments - What are Appropriate Assessment Strategies?
- Planning Instruction - What are Appropriate Integration Strategies?
- The idea and elements of the new classroom environment

Week 3:

Read: Chapter 8 Part 1: Pages: 189-195

Topics:

- Background on Distance Learning
- Definition, directions, research and current issues on Distance Learning
- Nature of Distance Education and Distance Learning
- Optimizing Resources available to support distance learning
- Avoiding what does not work and knowing how to choose wisely

Week 4:

Read: Chapter 8 Part 2: Pages 196 - 205

Topics:

- Resources to support Web-based Learning
- Delivery Systems for Distance Education
- The Internet as a delivery system for teaching and learning

Week 5:

Read: Chapter 8 Part 3: Pages 206 -214

Topics:

- Types and Examples of Web-Based Lessons and Projects
- Web Site Support for Classroom Projects

- Analysis of Distance Learning, Webpages and Internet strategy for teachers and learners
- Advantages and Disadvantages of Problem solving using Technology
- Characteristics of successful online courses
- Effective assessment strategies for online courses and programs

Week 6 :

Read: Chapter 9: Pages 221 - 231

Topics:

- Introduction to Classroom and other Learning Environments of the Future
- Historical Reinvention - A Technology infused History Curriculum revisited throughout history
- The Technology futurist perspective or mindset model
- Design with the future of technology of teaching in mind

Week 7:

Supplemental Readings to be provided:
Technology control issues

Topics:

- Assessment tools for evaluation of emerging technology for Education
- Impact of emerging technology on Teaching and Learning
- Technology and innovation
- How technology is changing education, teaching and learning

Week 8:

Explore Subject-Specific Chapters (10-15)

Topics:

- Educational technology in specific subject areas

Week 9:

Explore Subject-Specific Chapters (10-15)

Topics:

- Computer-based learning
- Tutorial Software versus Educational Software

Week 10:

Explore Subject-Specific Chapters (10-15)

Topics:

- Advantages and Disadvantages of Problem solving using Technology

Week 11:

Read Provided Article**: *Top 10 Technology Breakthroughs for Schools***

Topics:

- Technology trends
- Decision-making in educational technology

Week 12:

Supplemental readings to be provided

Topics:

- Video Applications in Education
- Digital Video

Week 13:

Supplemental readings to be provided

Topics:

- Wireless communication
- Networks
- Internet2

Week 14:

Supplemental readings to be provided

Topics:

- Voice Activation
- Voice-to-text
- Artificial Intelligence

Week 15:

Presentation Due: Final Project Presentation will be created using Microsoft PowerPoint and Microsoft Producer.

Week 16:

Final Project Due: Written Portion of Final Project is Due

The Missouri Show-Me Standards are addressed within the content of this course. Identification of specific standards are included within course assignments. Integration of Missouri Assessment Program (MAP) standards and grade levels will be integrated into this course when appropriate.

EVALUATION:

Assignments:	35 points:
Descriptive Application papers: (1 typed page each)	3 @ 5 points each for 15 points
Cases: (2 typed pages each)	4 @ 5 points each for 20 points
Term project:	50 points:
Selection and Approval of Term Project Topic:	2 points
Detailed Outline of Term Project:	3 points
Written Project (10-12 typed pages):	30 points
PowerPoint Presentation of Term Project using Microsoft Producer (8 to 10 minutes):	15 points
Discussion/Class participation:	15 points
Total	100 points

This syllabus is subject to change at the discretion of the instructor.