Administrative Unit: Education Department
Course Prefix and Number: EDUC 532
Course Title: Technology in Education

DIGITAL DESCRIPTIONS

STUDENT DESCRIPTION:
# Cr Hrs - # Lec Hrs - # Lab Hrs
3 - 3 - 0

PAY-HOUR DESCRIPTION:
Total # = Lec Hrs + Lab Hrs
3 = 3 + 0 X 2/3

Catalog Description: The study of instructional media and its use in the classroom. Traditional media and the latest technology are investigated. Provided are opportunities to work with the various mediums, produce materials, and integrate mediated experiences into instruction. Prerequisite: Graduate standing. Offered Spring semester.

Prerequisites/Corequisites: Graduate standing.

Text: Should be selected on the basis of the state of the art technology. No text older than one year should be used.

Course Objectives: By the end of the course students should be able to:

1. Identify, discuss and be able to use different media available for classroom use and compare and contrast the advantages and disadvantages of each.
2. Evaluate a particular use of instructional media with respect to technical feasibility and appropriate instructional design.
3. Design a lesson with appropriate use of audio, video and/or computer based materials.
4. Describe how the principles of instructional design interact with various technologies.
5. Evaluate commercial and teacher made instructional materials and software using criteria such as design, instructional format, relevance of objectives, cost, and ease of implementation into instruction.
6. Produce instructional materials appropriate for classroom use.
Topical Outline:

1. Historical development of instructional technology.
2. Learning research and learner characteristics
3. Instructional systems design
4. Specifying requirements for instruction
5. Instructional models
6. Communication and telecommunication
7. Classroom and project management
8. Multimedia and information management
9. The computer as educator: simulation, tutorial, drill and practice
10. Internet, library and information resources
11. Interactive instructional mediums and classroom use

Recommended maximum class size for this course: 16

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Date: January 17, 2001

NOTE: The intention of this master course syllabus is to provide a general outline of the contents of this course, as specified by the faculty of Columbia College, regardless of who teaches the course, when it is taught, or where it is taught. This generic outline is not intended to restrict the way any individual faculty member teaches the course. The master syllabus, therefore, should be general enough to allow for a diversity of individual approaches to teaching the course, while at the same time it provides guidance on what the course should cover.