

Course Syllabus

EDTC 5630 W1

**ADVANCED TOPICS IN CLASSROOM TECHNOLOGIES:
TECHNOLOGY AND THINKING SKILLS**

Fall 2002

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COURSE DESCRIPTION

This class will address the use of computer technology to teach higher level thinking skills in the k-12 classroom. Emphasis will be placed on theories of thinking skills (Dimension of Learning model and others), varieties of computer technology projects and activities which develop higher level thinking skills, and practical applications using hardware and software already available in individual classroom settings.

LEARNING OUTCOMES

This course will enable participants to:

- a. develop a conceptual model and philosophy for integrating computer technology into the teaching of higher level thinking skills in the classroom
- b. develop a readily available personal fund of resources for computer activities
- c. select computer activities appropriate for the individual teacher and classroom
- d. develop activities which relate to the individual teacher's instructional objectives, including subject content and targeted thinking skills

SCHEDULE AND COURSE OUTLINE

(Subject to Change)

Week 1:

Where we are now--introductions, initial thinking skills theories, course and discussion requirements

Week 2:

Overview of Dimensions of Learning (DOL) theory, Dimension 1

Week 3:

Dimension 2

Week 4:

Dimension 3

Week 5:

Dimension 4

Week 6:

Dimension 5, select groups and presentation topics

Week 7:

Supplementary group project: Assessment

Week 8:

Work on group presentations

Week 9:

Work on group presentations,
Supplementary group project: Unit Planning Reflections

Week 10:

Work on group presentations

Week 11:

Work on group presentations

Week 12:

Present group projects

Week 13:

Submit project evaluations, work on reflective project

Week 14:

Work on reflective project

Week 15:

Submit reflective project

Week 16:

Course reflections and summary

RESOURCES**Required Text:**

Marzano, R. J. *A Different Kind of Classroom: Teaching with Dimensions of Learning*

Supplemental readings (not required but helpful):

Marzano, R. J. and Arredondo, D.E. *Tactics for Thinking, Teacher's Manual.*

Marzano, R. J. et al, *Dimensions of Learning Teacher's Manual*

Marzano, R. J. et al, *Dimensions of Thinking: A Framework for Curriculum and Instruction*

EVALUATION

- a. Class participation:
regular and relevant posting to online discussions
- b. Major group presentation:
Powerpoint presentation or web presentation on a thinking skills theory, according to instructor directions
- c. Supplementary group presentations:
auxiliary and supporting group presentations relating to the major project, according to instructor directions.
- d. Reflective project:
personal synthesis of thinking skills for use in individual classroom

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