

Summer Session 2000

**EDUC 476 - 4**  
**Designs for Learning: Natural Sciences**  
**(Elementary)**

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Mon & Wed 17:30-21:20 in MPX 7500F

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**E02.00**

**PREREQUISITE**

Educ 401/402

**COURSE DESCRIPTION**

This course is based on a discovery approach to Science in the Elementary classroom.

**TOPICS**

- The Scientific Method
- The discovery approach: The child as discoverer
- Self-examination of beliefs about teaching Science
- The role of questioning in the Science classroom
- Developing critical thinkers
- Practical applications to covering the curriculum
- What the current research says

**OBJECTIVES**

- To examine and develop your own approach to teaching Science.
- To build a repertoire of practical skills and curriculum materials.
- To develop strategies that encourage the participation of all students.
- To acquire an ability to create, reflect on and improve your own teaching practices.
- To look at ways that promote critical thinking in the Science classroom.
- To analyze the current research on Science instruction.

**REQUIREMENTS**

- Personal journal (20%)
- Two essays (5% and 15%)
- Final Project (40%)
- Participation in class discussions and mini-presentations (20%)

**REQUIRED READINGS**

There is no required text. Readings will be provided from selected articles and through library research.