

Science Methods            EDUC 3560.01  
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Course Description:

This course is designed to provide prospective elementary teachers with a philosophy for teaching science and methods for implementing this philosophy in the classroom. A focus will be made to recognize the importance of science content, giving children tactile experiences, and teaching children problem solving skills. This enables children to become science literate and develop higher order thinking skills.

Learning Outcomes:

- Develop a personal philosophy for teaching elementary science
- Construct a “Big 6” unit
- Recognize that all students have the ability to be science learners
- Develop a constructivist lesson plan using science processes
- Create a science portfolio
- Build a KWL or Journal of information

***This course is not intended to teach basic scientific principles but to improve methods of teaching in the classroom.***

CLASS 1:

What is elementary Science?  
Discussion of science experiences - joys and fears  
Constructivism  
Scientific Method  
Class requirements: BIG 6, portfolio, unit-lesson plans  
Assign Lesson Plan and portfolio

CLASS 2

Learning Styles  
Labs  
Creating a Scientific Lesson Plan

CLASS 3:  
Portfolio presentations due  
Begin BIG 6

CLASS 4:  
Sheldon Korklan  
The Great Oreo Investigation

CLASS 5:  
BIG 6 and Lesson Plan  
Lab Practice

CLASS 6:  
Doloris Pepple - Inquiry  
Lesson plan due

CLASS 7:  
Off site visit - no class

CLASS 8:  
Presentation of BIG 6  
final

*One class will be moved in order to take a field trip and we will also spend a period of a class in the computer lab.*

**Assessment**

**portfolio - 20%**

**lesson plan - 15%**

**BIG 6 - 20%**

**lab - 15%**

**class philosophy and KWL/journal- 10%**

**Final - 20%**

**Attendance is a must!**

**SPECIAL NOTES:**

- Failure to attend class will result in grade reduction
- Regular class attendance is required
- All assignments are due on dates listed
- Late assignments are will not accepted
- Syllabus is subject to change at the discretion of the instructor