

## EDUC 3560 Elementary Science Methods

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Course Description – Elementary Science Methods is a designed to educate pre-service teachers about science curriculum and pedagogy in the elementary classroom. The course seeks to help students develop an understanding and appreciation of science and the ability to help children acquire knowledge, attitudes, and skills essential to science literacy.

The goal of this course is to provide students with pedagogical approaches and strategies regarding how to teach science in the elementary classroom.

Learning Outcomes:

Develop a personal philosophy of teaching elementary science

Recognize that all students have the ability to be science learners

Create a science portfolio

Evaluate good teaching practices and learning to facilitate

Develop an essential question and construct a unit using "Big 6" strategies

Perform a lab using the Scientific Method

Create a science KWL

Class one – No class... due to students being out of town

Class two – Introductions, syllabus, inquiry, KWL, constructivism, scientific method, "Big 6", essential questions, science portfolios,

Assign 3 assignments and select due dates

Class three – Doloris Pepple – Inquiry based science, KWL

Class four – Big 6, John lowerison – NASA, KWL

Class five – Using technology to teach science, Big 6 work time, using the scientific method to perform a lab, KWL

Class six – portfolio presentations, MAP, National Science Standards and applying the standards to teaching, Learning Styles, KWL

Class seven – Big 6, assessment vs evaluation, scoring guides, journaling in science, KWL

Class eight – presentation of "Big 6", KWL

**ALL CLASSES ADDRESS THE 6 NATIONAL SCIENCE STANDARDS**

assessment – Assessing students work in this class is an ongoing task that will be done by both the instructor and the student. Students always have the opportunity to "fix" any work that is not done correctly. This allows for maximum learning. The projects that will be assessed are as follows:

portfolio

KWL

"Big 6"

Lab

Special Notes – You are expected to attend every class. If for some reason that you cannot attend, you need to contact me by e mail. If you are very ill or have a death in your family, obviously this is an excused absence. But, if you have scheduled other plans, you need to make arrangements to be in class or your grade will be lowered. All assignments are due on dates decided. Late assignments are not accepted. Syllabus may change(as it already has with adjustments for students out of town.) You are required to have one meeting in the day. I will be flexible with this. The most important thing is that you learn and be confident as a science facilitator.