

**AUGUSTA STATE UNIVERSITY
COLLEGE OF EDUCATION
DEPARTMENT OF TEACHER DEVELOPMENT**

ECED 3231 - Early Childhood Science Education I - Physical, Earth, and Space Science

We live in a society exquisitely dependent on science and technology, in which hardly anyone knows anything about science and technology. Sagan

Spring 2006 Assignments

***All work should be typed, double-spaced, with a cover sheet. Work may be turned in early for feedback. Include and label all parts of each assignment. Any assignment turned in late, if accepted, will have 20% deducted before grading. Points will be deducted from final grade for failure to use standard English in written or oral form. Points will be deducted from the final grade for lack of professionalism. Failure to pass the lab portion of the course will result in a failing grade for the entire course. 50 points

Attendance

The student will be expected to attend all classes. Being in attendance means students are prepared for, on time for, and participate in, each class meeting. Attendance will be taken by sign-in sheet. Failure to sign in means, you are absent! Any student missing more than 1 ½ week's worth of class time may be dropped from the course.

Historical Scientist

This assignment is designed to broaden your background in science education. The assignment is meant to be an opportunity to give you an in-depth view of an historical figure in science. You will choose a scientist, either from the suggested list found below or one of your own interest (requires approval of instructor). Read about your scientist using **at least 6 references (No more than half from the internet)**. **Then prepare a biography of your scientist - their life, work, and its importance.** *This assignment relates to Conceptual Framework Principal 1 at the Understanding Domain.* Maximum length to be six pages. Turn in a paper copy. The following criteria will be used:

- Content of synopsis as discussed above = 35
- Quality of writing = 15 points
- Total possible points = 50

Galileo	Charles Darwin	Copernicus	Michael Faraday
Sir Fleming	Gregor Mendel	Issac Newton	Mary Leakey
Leonardo de Vinci	Edwin Hubbell	Linus Pauling	Daniel Hale Williams
Alfred Nobel	Archimedes	Albert Einstein	George Washington Carver
Marie Curie	Daniel Bernoulli	Thomas Edison	Hans Christian Oersted
Louis Pasteur	Andre Marie Ampere	James Prescott Joule	Dianne Fossey
Archimedes	Robert Boyle	Benjamin Banneker	Jane Goodall

Quick Assessments:

Students will be assessed on their knowledge of the assigned readings, homework, or other course content throughout the semester. The assessments will be unannounced. There will be no make-up assessments given. These assessments will be worth a total of 50 points. *This assignment relates to Conceptual Framework Principals 1, 4, & 7 at the Application and Analysis Domains.*

Science Unit:/ISL

The student will create a science unit for a given grade in elementary school. The unit should contain five days of sequenced lessons to teach the concepts. The unit should also contain a diagnostic and summative assessment. Each lesson plan should contain one behavioral objective (with the appropriate QCC objective), an essential question, a formative assessment of the objective, materials needed, and activities to address the objective. Turn in a paper copy. This must be linked to your electronic portfolio. This assignment is worth up to 100 points. *This assignment relates to Conceptual Framework Principals 4, 6, & 7 at the Application, Analysis and Refinement Domains.*

Field Work:/ISL

The student will teach at least three science lessons to the whole class. The content of the lessons should come from the curriculum in the field. The lab teacher must approve your lessons at least one week in advance of your teaching. Your lessons must include hands-on activities that allow children a chance to manipulate objects. Lesson plans should include a GPS, an assessment, materials to be used, safety precautions, and procedures. After teaching each lesson, the student should write up a reflection of the lesson. Lab teacher's assessment of your teaching and professional abilities will be a part of this grade. This assignment is worth up to 100 possible points. *This assignment relates to Conceptual Framework Principals 4, 6, & 7 at the Application, Analysis and Refinement Domains.*

Test:

The student will complete two tests during the quarter covering the material in the course. Students are responsible for all assigned readings. **All reading assignments are fair game for test, even if not covered in class. Part of each test will cover science content appropriate for certification level.** Tests will be worth 50 points each. *This assignment relates to Conceptual Framework Principals 1, 4, & 7 at the Understanding, Application and Analysis Domains.*

Grading:

Grades will be assigned based on the following point system.

A = 400-372 B=371-344 C=343-312 D=311-280