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Office Phone: 903-875-7517
Office Fax: 903-875-7525
University Email Address: lisa.dillman@navarrocollege.edu

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings:

Textbook(s) Required: Reviewing Science Paul Cohen et al. 2nd edition

Textbook(s) Suggested: PROJECT WILD – Manual (supplied)

Other materials recommended:
Basic Standard calculator
Pencil and colored pencils
Ruler
Scissors
Scotch tape or glue stick

Course Description: Science topics and themes are chosen to emphasize broad concepts highlighted in the Texas and National Science Standards. Topics include fundamental physical and chemical processes such as the chemistry of the environment, macromolecules of life, systems in nature, and the nature of scientific inquiry. The course will be taught using any inquiry based method, modeling, instructional techniques proven effective by current educational research. Prerequisite Junior level standing.

Student Learning Outcomes:

1. To help prepare pre-service elementary teachers to pass the elementary science section on the TEExES exam. Approximately 15% of the TEExES exam is science-related. To address the 10 science competencies (42–51) Listed in the TEExES preparation manual.

2. To provide a continuation of science content and lab skills introduced in IS 351 and to demonstrate that certain universal concepts are present in all the sciences and can be investigated. Topics are correlated with the TEKS and TAKS objectives and with elementary science teacher competencies.

3. Most important: To provide you and your future students with a good base of Science knowledge! To be a successful teacher you need to be well rounded and apply concepts across the curriculum to give your students the foundation they need to be successful.
4. To provide the pre-service teacher with an opportunity to fulfill the following Science Standards:

   I. The science teacher manages classroom, field and laboratory activities to ensure the safety of all students and the ethical care and treatment of organisms and specimens.

   II. The science teacher understands the correct use of tools, materials, equipment, and technologies.

   III. The science teacher understands the process of scientific inquiry and its role in science instruction.

   IV. The science teacher has theoretical and practical knowledge about teaching science and about how students learn science.

   V. The science teacher know the varied and appropriate assessments and assessment practices to monitor science learning.

   VI. The science teacher understands the history and nature of science.

   VII. The science teacher understand how science affects the daily lives of students and how science interacts with and influences personal and societal decisions.

   VIII. The science teacher knows and understands the science content appropriate to teach the statewide curriculum (Texas Essential Knowledge and Skills {TEKS}) in physical science.

   IX. The science teacher knows and understands the science content appropriate to teach the statewide curriculum (Texas Essential Knowledge and Skills {TEKS}) in life science.

   X. The science teacher knows and understands the science content appropriate to teach the statewide curriculum (Texas Essential Knowledge and Skills {TEKS}) in earth and space science.

   XI. The science teacher knows unifying concepts and processes that are common to all sciences.

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** COURSE REQUIREMENTS **

**Classroom Policies**

**Attendance**

- To be successful as a student I expect you to attend ALL classes. I understand situations arise that may result in you needed to miss class, keep in mind you are responsible for the material recovered in the class that day, regardless of the reason for missing class. If you miss a class the instructor will NOT re-teach the material to you, it is your responsibility to make up all missed work on your own. Please make arrangements with another student in the classroom to get notes, lab results or announcements missed in class. Copying another students work into your science notebook will NOT give you any credit toward this lab you must be present to receive the grade.

- Attendance is Mandatory. If you miss a class you will not be allowed to make up the work. I will however review a Student’s absence if they have been in the hospital or have had a death in the family. Proper documentation must be supplied. Going on Vacation is NOT an excuse to miss class. **IF YOU MISS CLASS BEFORE AN EXAM, YOU ARE STILL RESPONSIBLE FOR THE MATERIAL COVERED ON THAT DAY.** You must discuss any options to complete the missing work ahead of time. Failure to take responsibility for missing class will result in a grade of 0 for an exam.

**NO MAKE-UP EXAMS WILL BE GIVEN.**
- If you make the choice to cheat on exams, copy someone else’s work or plagiarize (copy without documentation) material from a source you will receive a penalty. You may be asked to leave the class, dropped from the class &/or receive an automatic F.

- You will also need to participate in classroom activities and study outside of class.

- Please be on time for all class meetings and bring your textbook, paper and supplies with you to lecture and lab.

**General Classroom**

- If you have a problem with the course or the material see me and I will do my best to help.

- Rude and disruptive behavior will not be tolerated. You will be asked to leave the classroom and will not be allowed to return without meeting with the instructor and the director of the A & M program.

- No scheduled breaks. Unless there is a class discussion, lecture, or video, you may take a break as needed.

- No food or drinks allowed in the classroom. For safety reasons, you should never eat or drink in the lab.

- Cell phone/ pagers- **TURN THEM OFF!**

- Study your materials for a few minutes every day. Science is not easy, short study periods are much more effective than late night “Cram” sessions.

- I am excited about this class. I hope you will relax and enjoy the class, we are going to learn lots of cool science information and have fun together!

**Grading** (Subject to change *****)

Grades will be calculated by taking the total points possible. The resulting percentage will determine the grade. (90% and above an A, 80% a B etc.)

50% Three major exams 100 pts each

30% Lab Reports 23 reports to be turned in for 10-15 pts each/ possible project

20% Final Exam Comprehensive

100%

**Grading FYI’s**

1. All work must be completed and done neatly for full credit.

2. All diagrams (chart, tables, graphs, etc.) must be drawn with a ruler.

3. Any calculations or measurements should be expressed to one place past the decimal.

4. Numerical answers without the correct unit have no meaning and will result in deduction of points for each answer.

**TECHNOLOGY REQUIREMENTS**

None
COMMUNICATION AND SUPPORT

Interaction with Instructor Statement:

I will be in my office 1 hour before class to prepare for class and answer questions. I will also remain after class as needed by students

Contact: 903-875-7517

Primary E-mail: lisa.dillman@navarrocollege.edu
Please use this one, I have a Commerce address but do not check it regularly

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures:

1. We will be using the Project Wild curriculum as well as added labs and assignments from the textbook

2. Tests will be a combination of objective items [multiple choice, matching, etc.] and short answer/discussion items.
   Included on the exam will be questions over the actual labs, notes and additional information for the labs, introduction and backgrounds from the project wild labs, lab results and other materials as assigned

3. Labs will be completed as a group. All members of the group are expected to participate. Individual student work will be recorded in their Science Notebooks and then submitted for grading. Books not completed at the time of grading will lose points for the unfinished labs.

University Specific Procedures:

ADA Statement The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamu-commerce.edu
Student Disability Resources & Services
Internship Requirements:

All students applying for internship must attend a mandatory meeting the semester prior to the internship beginning. If you are interning in the fall, the meeting will be in January. If you are interning in the spring, the meeting will be in August.

All students must complete an application for internship. Students must meet the following requirements:

a) Reading THEA score of 250 or Accuplacer Reading Score of 88 or COMPASS reading score of 90 or ACT score of 23 or SAT Verbal score of 550.
b) Math THEA of 230, ACT score of 19 or SAT Math Score of 500, grade of C or better in College Algebra.
c) Writing THEA of 220, grade of C or better in College English
d) 2.5 GPA overall
e) 2.5 GPA Interdisciplinary Studies Courses
f) 2.5 GPA Specialization Courses
g) 2.5 GPA Professional Development Courses
h) Completion of all of the following courses: ELED 200, 300, RDG 350, 360,370, PSY 300, 310, SPED 346, IS351 OR 352, MATH 350
i) Students may not lack more than 9 hours on entering internship. The following may be lacking: MusArtThe 305, one of the IS courses, Math 351, 1 specialization course. All other courses must be complete.
j) Failure to meet the above requirements will result in not entering internship on time.
Pl) Students will not be permitted to take the generalist exam, if they are missing content courses.

Graduation – All students should meet with their advisor 1 semester prior to graduation to ensure that all requirements are met.

Completion of all requirements for degree (check degree evaluation for errors)
Successful completion of JLE (see advisor)

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment.

You are expected to conduct yourself as a responsible adult. You are expected to show respect to the instructor and to your classmates. Behavior that deviates from this model and that disrupts the educational process can result in your removal from the class.
<table>
<thead>
<tr>
<th>Date(s)</th>
<th>Activities</th>
<th>Assignments</th>
<th>Student Outcomes Addressed</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/9</td>
<td>Intro to course; Video on Inquiry Learning; LAB - Measurement LAB: Sheep in a Jeep Force &amp; Motion -</td>
<td>Read pp. 123-141; do review exercises.</td>
<td>1, 2, 4</td>
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<tr>
<td>7/11</td>
<td>Activity: Introduction to Chemistry and the Periodic Table LABS: States of Matter and Acids, Bases, &amp; Indicators Project WILD activities: Wildlife is Everywhere and What did your lunch cost wildlife?</td>
<td>Read Ch. 1, pp. 27-60; do review exercises Read pp. 51-52, p. 68-69 in Project WILD manual</td>
<td>1, 2, 3, 4</td>
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<tr>
<td>7/16</td>
<td>LABS: States of Matter and Acids, Bases, &amp; Indicators Continued LAB: Pancakes, Pancakes</td>
<td></td>
<td>1, 2, 3, 4</td>
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<tr>
<td>7/18</td>
<td>TEST #1 INQUIRY LAB: What Factors Affect the Motion of a Pendulum? PW: activities: What You Wear is What They Were Hazardous Links</td>
<td>Read pp. 210-212 and pp. 326-329 in Project WILD manual</td>
<td>1, 2, 3, 4</td>
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<tr>
<td>7/23</td>
<td>LAB: Simple Machines LAB: Magnifying Nature Discuss living non-living; cells LAB - Building Edible Cell Models</td>
<td>Read pp. 142-151 do review exercises Read pp. 153-174 do review exercises</td>
<td>1, 2, 3, 4</td>
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<tr>
<td>7/25</td>
<td>Test #2 Maps &amp; Mapping – LAB: Working with Topographic Maps LAB: Cookie Topography LAB: Plate Tectonics</td>
<td>Read Ch. 9, pp 264-271; do review</td>
<td>1, 2, 3, 4</td>
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<tr>
<td>7/30</td>
<td>LAB: Mineral &amp; Rock Identification PW Labs: Classroom Carrying Capacity and How Many Bears Can Live in This Forest?</td>
<td>Read Ch. 9, pp 243-263; do review Read Ch. 8, pp. 221-242 do review exercises Read pp. 9-11 and 23-27 in Project WILD manual</td>
<td>1, 2, 3, 4</td>
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<td>8/1</td>
<td>TEST #3 Discuss Human Body Systems Lab: Human Anatomy</td>
<td>Read Ch. 9, pp. 196-217; do review exercises Read Ch. 10, pp. 272-294; do review exercises</td>
<td>1, 2, 3, 4</td>
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<tr>
<td>8/6</td>
<td>LAB: Forensics Investigation Project WILD activities: Oh Deer! and Tracks!</td>
<td>Read pp. 30 – 33 and pp. 36-40 in Project WILD manual</td>
<td>1, 2, 3, 4</td>
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<tr>
<td>8/8</td>
<td>FINAL EXAM (Comprehensive)</td>
<td>N/A</td>
<td>1, 2, 3, 4</td>
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