
Course Description: Science Inquiry II: Science topics and themes are chosen to emphasize broad concepts highlighted in the Texas and National Science Standards. Topics will include fundamental physical and chemical standards, processes and reactions, energy transfer in systems, and the nature of scientific inquiry. The course will be taught using an inquiry based format, modeling instructional techniques proven effective by current educational research.

Course Requirements

Course Goals: To provide a continuation of science content and laboratory skills that will help prepare pre-service elementary teachers to teach science concepts as inquiry. Topics are correlated with Texas Essential Knowledge and Skills objectives and with elementary science teacher competencies that will provide preparation to pass the science section on the TExES exam.

Course Information: To be successful in IS 352 you must attend all classes, pay attention, participate in discussions, follow verbal and written instructions, complete lab activities and lab reports properly, research assigned topics for projects, and prepare for testing. You need to become familiar with the TEKS, in abbreviated form for class, and in detail at the TEA web site. www.tea.state.tx.us . You will also need to become familiar with Safety Regulations from Flinn Scientific at www.flinnsci.com. Labs will require lined paper, unlined paper and colored pencils.

Grading Scale: (100-90% = A; 89-80% = B; 79-70% = C; etc.)
Lab/Reports Average (drop lowest grade)  40%
Project Average  20%
Mid Term and Final Exam Average  30%
Attendance/Participation  10%
Course Specific Procedures:
Attendance will be taken by means of a sign in sheet each class meeting. Missing three labs could be grounds for removal from class. The first portion of each class will review the previous concept and present an overview of the scheduled topic. The second portion of each class will be the lab activity for that topic. Prime time for a break, if you need one, will be immediately after lab directions before you begin the lab.

Lab reports will be done individually and/or as a group and will be due at the end of each class unless otherwise stated. Labs will not be made up, the lowest lab grade will be dropped, and all other missed labs will be zeros. Prior notification and medical documentation may provide an excused second absence at the discretion of the instructor. Projects are due on the date listed, if you are absent your project is still due on that due date. Exams may be rescheduled if the instructor is notified prior to the date, the absence can be documented as a medical emergency, and a convenient time to take the exam can be determined by the instructor.

No food or drinks are allowed in the lab room. Please remember to mute or turn off all cell phones/pagers or any electronic device that could disrupt the class. No cell phones are to be used for any purpose during class without prior approval of the instructor. For a complete listing of TAMU-Commerce Procedures go to www.tamu-commerce.edu/administration/

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

Student Conduct
All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See Code of Student Conduct from Student Guide Handbook).
1/15  **Individual Research; Class will not meet:** Syllabus, Schedule, TEKS, What’s In Your Name (Due February 5, 2013); Laboratory Regulations, Safety (in Syllabus and attachments sent by email)

1/22  **Individual Research; Class will not meet:** PPREAC and 5 “E” Notes, Brain Study, Significant Figures, and Non-Traditional Graphing Lab Activity, Due February 5, 2013, (sent by email)

1/29  **Individual Research; Class will not meet:** Project Directions for Project Presentation Due April 30, 2013, (sent by email)

2/5  **CLASS WILL MEET:** “The Science Model” Measurement; Observing, Investigating, Analyzing & Interpreting Data

2/12  Color Indicators and Chromatography

2/19  Atomic Structure Models and an overview of the Periodic Table

2/26  Chemical and Physical Properties and Reactions

3/5  MID TERM EXAM

3/12  Late Winter/Spring Break; Class will not meet

3/19  Energy Transfer in Biology and Chemistry

3/26  Geology has its Faults

4/2  Force and Motion; (At Home Lab Assigned)

4/9  **Individual Research; Class will not meet:** At Home Lab: The “PTC” Experiment (Due April 16, 2013)

4/16  Energy Transfer in Geology and Physics

4/23  Fluids and Surface Tension

4/30  Research Project DUE (class presentations)

5/7  **FINAL EXAM**

“This document contains information which may be changed at the discretion of the instructor.”