



SCIENCE INQUIRY II - INTEGRATED SCIENCE 352 610 SYLLABUS

Tuesday: 7:30-10:00 pm; Room 110

TAMU-Commerce Midlothian Campus

Instructor: Mrs. Evelyn Restivo; erestivo2001@yahoo.com

Fall 2015

COURSE INFORMATION

Optional Text: Teaching Children Science A Discovery Approach, 6th Edition, 2004 Joseph Abruscato, Allyn & Bacon

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 (TEKS) objectives and with elementary science teacher competencies that will provide preparation to pass the science section on the exit 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, and prepare for testing. You need to become familiar with the TEKS, in abbreviated form for class, and in more 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 lab grade)	50%
Mid Term and Final Exam Average	40%
Attendance/Participation	10%

COURSE AND UNIVERSITY PROCEDURES/POLICIES

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. At home lab reports are due on the date listed, if you are absent your lab report is still due on that 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 or any other electronic devices are to be used for any purpose during class without prior approval of the instructor and will never be heard or used during exams. 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*).

IS 352 COURSE OUTLINE / CALENDAR FALL 2015

- 9/1 Unique You, Welcome, Syllabus, Schedule, TEKS, Laboratory Regulations, Safety, PPREAC, 5 “E”, Significant Figures, Metric Measurement, Thinking Maps, How the Brain Learns, “The Science Model” Somethings Fishy Lab
- 9/8 At Home Science and Children 3-2-1 Reading Report Assignment (Due 9/22); Measurement Lab: Observing, Investigating, Analyzing and Interpreting Data: “The Burning Candle”
- 9/15 **CLASS WILL NOT MEET:** Work time for at Home Lab Science and Children 3-2-1 Reading Report Assignment (Due 9/22)
- 9/22 At Home Science and Children 3-2-1 Reading Report Due; Measurement Lab Discussion, Color Indicators and Chromatography Lab
- 9/29 Science and Children Reading Report Discussion, MID TERM PROJECT EXAM Assignment (Due 11/17); Color Indicators and Chromatography Lab Discussion, Atomic Structure Models and an Overview of the Periodic Table Lab
- 10/6 **CLASS WILL NOT MEET:** Work time for MID TERM PROJECT EXAM
- 10/13 Atomic Structure Models and an Overview of the Periodic Table Lab Discussion; Chemical and Physical Properties and Reactions Lab
- 10/20 Chemical and Physical Properties and Reactions Lab Discussion; Assignment of at Home Lab: Non-Traditional Graphing (Due 11/3); Energy Transfer, Fluids and Surface Tension in Biology and Chemistry Lab
- 10/27 **CLASS WILL NOT MEET:** Work Time for at Home Lab Non-Traditional Graphing
- 11/3 Energy Transfer, Fluids and Surface Tension in Biology and Chemistry Discussion; At Home Lab Non-Traditional Graphing Due; Geology has its Faults Lab
- 11/10 **CLASS WILL NOT MEET:** Work time for MID TERM PROJECT EXAM
- 11/17 **MID TERM PROJECT EXAM DUE;** At Home Lab Non-Traditional Graphing Discussion; Geology has its Faults Lab Mineral and Rock Types and The Rock Cycle Discussion, Galileo and Newton: Force and Motion Lab; Force and Dimensions of Craters Lab;
- 11/24 **THANKSGIVING BREAK; CLASS WILL NOT MEET**
- 12/1 Galileo and Newton: Force and Motion Discussion; Force and Dimensions of Craters Lab Discussion; Energy Transfer in Geology and Physics Lab
- 12/8 Energy Transfer in Geology and Physics Discussion, **FINAL EXAM**

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