



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
Spring 2016 Office hours: 7:00 – 7:30 pm Tuesday

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/discovery 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 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 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, graph paper and colored pencils. Most other materials and supplies will be provided.

Grading Scale: (100-90% = A; 89-80% = B; 79-70% = C; etc.)

Lab/Reports Average (drop lowest 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. As you enter 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. Any electronic device that disrupts exams will be cause for stopping the exam for the class. 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. A&M-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

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 Spring 2016

Name Building Blocks; Welcome; Syllabus; Schedule; TEKS, Laboratory Regulations and Safety; PPREAC and 5 “E” Notes; Metric Measurement Chart; Thinking Maps; The Science Model: The Fishy Moves Lab

Measurement Lab: Observing, Investigating, Analyzing & Interpreting Data “The Burning Candle”

The Burning Candle Discussion; Color Indicators and Chromatography Lab

Color Indicators and Chromatography Lab Discussion; Science and Children Reading Report; Atomic Structure Models and an overview of the Periodic Table Notes and Lab

Work time for Science and Children Reading Report

Atomic Structure Models Lab Discussion; Science and Children Reading Report Due; Chemical and Physical Properties and Reactions Notes and Lab

Science and Children Report Discussion; Chemical & Physical Properties & Reactions Lab Discussion; Assignment of at Home Lab: Non-Traditional Graphing; **MID TERM EXAM**

Non-Traditional Graphing Lab

Mid-Term Exam Discussion; Non-Traditional Graphing Lab Due; Energy Transfer, Fluids and Surface Tension in Biology and Chemistry Lab

Non-Traditional Graphing Lab Discussion; Energy Transfer, Fluids and Surface Tension in Biology and Chemistry Lab Discussion; Mineral, Rock Charts and Cycles Notes; Geology has its Faults Lab

Geology has its Faults Lab Discussion; Galileo and Newton: Force and Motion Notes and Lab

Galileo and Newton: Force and Motion Lab Discussion; Energy Transfer in Free Fall Lab

“The Jet Straw” Lab

Energy Transfer in Free Fall Lab Discussion; “The Jet Straw” Lab Due; Energy Transfer in Geology and Physics Notes and Lab

Energy Transfer in Geology and Physics Lab Discussion; **FINAL EXAM**

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