



SCIENCE INQUIRY I - INTEGRATED SCIENCE 351 610 SYLLABUS
Tuesday: 5:00-7:30 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: Inquiry: Knowledge and Skills of Science
Science topics and themes are chosen to emphasize broad concepts highlighted in the Texas and National Science Standards. Topics will include conservation laws, systems in nature, the nature of scientific inquiry, and presentation of scientific information. 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 preliminary overview 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 Requirements: To be successful in IS 351 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 will 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:

Students with Disabilities:

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
Room 132
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
StudentDisabilityServices@tamuc.edu

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 351 COURSE OUTLINE / CALENDAR FALL 2015

- 9/1 What's In Your Name, Welcome, Syllabus, Schedule, TEKS, Laboratory Regulations, Safety, PPREAC, 5 "E", Significant Figures, Metric Measurement, Thinking Maps, How the Brain Learns, "The Science Model" Objects in a Bag Lab
- 9/8 At Home Lab Assignment: Position and Direction of Motion; Speed, Velocity, Acceleration & Free Fall (Due 9/22); "Primarily Bears on the Go" learning colors and number combinations and "Stack and Track Bears" learning organization, assortment, distribution, non-traditional measurement and graphing
- 9/15 **CLASS WILL NOT MEET:** Work time for at Home Lab: Position and Direction of Motion; Speed, Velocity, Acceleration & Free Fall (Due 9/22)
- 9/22 Bears Survival Discussion, Position and Direction of Motion; Speed, Velocity, Acceleration & Free Fall at Home Lab Due; Measurement Lab: Length, Volume, Mass & Temperature
- 9/29 Measurement Lab Discussion; MID TERM PROJECT EXAM Assignment (Due 11/17); Determining the differences between Living and Non-Living Lab with Natural Cycles
- 10/6 **CLASS WILL NOT MEET:** Work time for MID TERM PROJECT EXAM
- 10/13 Living and Non-Living Discussion; Natural Cycles Discussion: Whole, Parts, and Parts of Parts: "Diary of a Worm" Lab
- 10/20 "Diary of a Worm" Discussion; At Home Science and Children 3-2-1 Reading Report Assignment (Due 11/3); What has Eight Legs and Simple Eyes? "Diary of a Spider" Lab
- 10/27 **CLASS WILL NOT MEET:** Work time for MID TERM PROJECT EXAM Assignment (Due 11/17) and Science and Children Reading Assignment (Due 11/3)
- 11/3 Science and Children Reading Assignment Report Due; "Diary of a Spider" Discussion; "Diary of a Fly" Lab
- 11/10 **CLASS WILL NOT MEET:** Work time for MID TERM PROJECT EXAM
- 11/17 **MID TERM PROJECT EXAM DUE;** Science and Children Reading Assignment Report Discussion; "Diary of a Fly" Discussion; Classification Traits, Taxonomy and Forensic Chemistry Lab
- 11/24 **THANKSGIVING BREAK; CLASS WILL NOT MEET**
- 12/1 Classification Traits and Forensic Chemistry Lab Discussion; Color Mixing and Pigments: "Mouse Paint" Lab
- 12/8 "Mouse Paint" Discussion; **FINAL EXAM**

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