

University of Texas at Dallas
Spring 2005
Syllabus – SCI 5V06
Integrated Eighth Grade Science I
Monday 5:15-8:30
FN 3.308

Instructor: Barbara Curry
Office Hours: Tuesday 3:00 to 6:00 pm
 Wednesday 2:00 to 5:00 pm
 Founder's North 3.206
Office Phone: 972-883-4008
E-mail: barbc@utdallas.edu

The goal of this course is to give you, the middle-school teacher, sufficient knowledge and understanding of basic science concepts integrated at your grade level so that you may feel comfortable teaching in the combined areas of science. All activities and assignments will have relevance, and will be applicable to what you are doing in your own classroom.

Tentative Schedule:

January 10	Introduction, Syllabus, Pretest
January 24	Inquiry and the 5-E Lesson Model
January 31	Assessment
February 7	Science Processes/Scientific Method/Science Fair
February 14	Models and Their Limitations
February 28	Force and Motion (8.7.a)
March 14	Waves (8.7.b)
March 21	Heat (8.10.a, 8.10.c)
October 28	Atomic Structure (8.8.a, 8.8.b)
March 28	Chemical Reactions (8.10.b)
April 4	NSTA/NARST
April 11	Integration of Chemistry and Physics Concepts
April 18	Presentation of Science Fair Projects
April 25	Final Exam

Requirements and Grading:

Five E Lesson on Physics Concept.....	15%	(due March 21)
Five E Lesson on Chemistry Concept.....	15%	(due April 11)
Weekly quizzes over previous class content and activities.....	20%	(due weekly)
Science Fair Project.....	20%	(due April 18)
Final Exam.....	30%	(given April 25)

Assignments:

Quizzes

Weekly quizzes will be given. They will consist of 1 question over the information from the previous class. These will be sent via e-mail immediately after class and must be turned in at the following class period.

Science Fair Project

You will complete a science fair project according to guidelines presented. This will be presented to the class and judged according to official Science Fair standards.

Five E Lesson

Using a Physics/Chemistry concept that you teach, write a detailed lesson following the Five E model. Details will be given later.

Final Exam

A combination of hands-on problem solving activities and written application-type questions encompassing the material covered.