

## CHEM 1411 -- General Chemistry -- Fall 2009 Syllabus

### Faculty Information:

Section 020  
Mr. Kevin Boudreaux  
MWF 9:00-9:50  
CAV 211  
Office: CAV 207b  
Phone: 486-6623  
Email: Kevin.Boudreaux@Angelo.edu  
Office Hours: MWF 10-12, TR 9:30-12, M-F 1-2

Section 060  
Mr. Kevin Boudreaux  
TR 8:00-9:15  
CAV 200  
Office: CAV 207b  
Phone: 486-6623  
Email: Kevin.Boudreaux@Angelo.edu  
Office Hours: MWF 10-12, TR 9:30-12, M-F 1-2

Section 030  
Dr. Nick E. Flynn  
MWF 10:00-10:50  
CAV 215  
Office: CAV 204b  
Phone: 486-6650  
Email: Nick.Flynn@Angelo.edu  
Office Hours: WF 8-10, TR 9-12

Section 070  
Dr. Ross C. Dawkins  
TR 9:30-10:45  
CAV 219  
Office: CAV 218  
Phone: 486-6625  
Email: Ross.Dawkins@Angelo.edu  
Office Hours in LIB 317:  
M 8-10:30, 12:30-3, T 11 am - 1pm, W 8-10:30 am, R 11am-1pm, F 8am-10:30 am

Section 040  
Dr. Edith Osborne  
MW 12:00-1:15  
Office: CAV 207b  
Phone: 486-6629  
Email: Edith.Osborne@Angelo.edu  
Office Hours: 8-9:30 MWF, 11-11:45 MW, 8-9 TR, 1-2 T, 11-12 F.

### Required Supplies

**Textbook:** Nivaldo J. Tro, Chemistry: A Molecular Approach (2008) [required]

**Lab Manual:** David Carter, Kevin A. Boudreaux, Nick Flynn, and Joe Velasquez, III, Laboratory Manual for Chemistry 1411 (2008) [required]. Also required: **Approved Lab Goggles.**

**Calculator:** Scientific calculator capable of performing calculations with log and scientific notation. Bring your calculator to class and to lab every day.

## Student Learning Outcomes

After completion of this course students will be able to:

- Demonstrate technical and analytical skills in the area of general chemistry.
  - ◆ Students will be able to use the periodic table to determine basic atomic information and to predict trends in atomic properties.
  - ◆ Knowledge of common types of chemical reactions will be used to classify and predict the outcomes of reactions.
- Analyze complex chemical problems and draw logical conclusions.
  - ◆ An understanding of atomic structure at the basic and atomic levels will be used to analyze the structure and reactivity of substances and chemical species.
  - ◆ An understanding of how energy interaction with matter will be used to predict stable chemical species, and perform thermodynamic calculations describing chemical reactions.
- Employ mathematics in the analysis of chemical problems.
  - ◆ The mole concept, chemical formulas and balanced chemical equations will be used to do chemical calculations that relate macroscopic measurements to numbers of atoms, ions or molecules.
  - ◆ Students will be able to quantitatively predict gas properties using gas law calculations.

## Evaluation of Student Learning Outcomes

Student learning outcomes will be evaluated by test questions or by the grading of in-classroom activities, as described by your instructor.

## Texas Higher Education Coordinating Board Natural Sciences Objectives

The objective of the study of a natural sciences component of a core curriculum is to enable the student to understand, construct, and evaluate relationships in the natural sciences, and to enable the student to understand the basis for building and testing theories.

## Exemplary Educational Objectives

1. To understand and apply method and appropriate technology to the study of natural sciences.
2. To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
3. To identify and recognize the differences among competing scientific theories.
4. To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.
5. To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

## Grading

Exams, 3 @ 100 pts	300
Final	200
Quizzes, classroom participation	100
Homework	200
Laboratory	200
Total	1000

**A** = 90-100% (900-1000 pts)

**B** = 80-89.9% (800-899 pts)

**C** = 70-79.9% (700-799 pts)

**D** = 60-69.9% (600-699 pts)

**F** = <60% (0-599 pts)

## Schedule

A schedule of exams, homework assignments and reading will be provided by the individual faculty.

## Final Exam Schedule

See: [http://www.angelo.edu/services/class\\_schedule/final.html](http://www.angelo.edu/services/class_schedule/final.html)

Section	Class			Final	
	Instructor	Days	Time	Date	Time
010	Carter	MWF	8:00-8:50	Mon Dec 7	8:00-10:00 am
020	Boudreaux	MWF	9:00-9:50	Wed Dec 9	8:00-10:00 am
030	Flynn	MWF	10:00-10:50	Mon Dec. 7	10:30-12:30 am
040	Osborne	MW	12:00-1:15	Mon Dec 7	1:00-3:00 pm
060	Boudreaux	TR	8:00-8:50	Tu Dec 8	8:00-10:00 am
070	Dawkins	TR	9:30-10:45	Thurs Dec 10	8:00-10:00 am

## Attendance

You are expected to attend all class meetings. You are expected to arrive on time and to stay until the end of the lecture. In-classroom activities such as worksheets and quizzes cannot be made up. You will not be automatically dropped if you stop attending class.

## H1N1 Flu

If you have the flu, please stay home. Do not help spread the flu to everyone else. Keep your professor informed as to your status by email (preferred) or telephone (if necessary). Your faculty will work with you to keep up to date in the class.

## **Last Day to Drop**

The last day to drop the course with a grade of "W" is October 29, 2009.

## **Blackboard**

Grades, information, handouts, homework assignments and other course documents will be posted on Blackboard. <http://blackboard.angelo.edu> (or access Blackboard from RamPort).

## **Exams**

Most of the exams will be over material covered since the last exam. However, the course builds on material delivered earlier so the concepts, calculations and techniques from earlier exams may be required.

## **Make-up Exams**

Make up exams will be at the discretion of your individual faculty. Usually, allowances will only be made in the case of an excused university absence. Communication with your instructor is critical.

## **Academic Dishonesty:**

The ASU policies on academic dishonesty can be found in the student handbook, which is available on line: <http://www.angelo.edu/cstudent/> and download the handbook as a .pdf. The penalty for ANY sort of dishonesty, cheating or plagiarism is: 1) a grade of zero on the assignment and 2) disciplinary action as warranted in accordance with university guidelines. Don't even consider it.

## **Honor Code**

Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both print and web versions of the Student Handbook.

## **Disabilities**

Persons with disabilities which may warrant academic accommodations must contact the Student Life Office, Room 112 University Center, in order to request and to implement academic accommodations.

## **Laboratory Attire**

Required Lab Dress: Beginning on the first day of lab, everyone **MUST** have **approved goggles, long-sleeved shirts which cover the midriff, long pants, and shoes with closed toes and heels** (no sandals, slides, etc.). (Basically, you should have as little exposed skin as possible.) Anyone not wearing the appropriate attire will not be allowed into lab.