

# Chemical Principles II – SCIE 5356 – Spring 2009

<b>Instructor</b>	Dr. Greg Hale 105 Life Science Building email: greg@hale.uta.edu phone: day: (817) 272-3807 (always try this number first) evening: (817) 275-7027 (before 8 PM) fax: (817) 272-5434 Office Hours: by appointment  Emily George georgee@hebisd.edu Office Hours: by appointment
<b>Schedule</b>	Monday, 6:00 to 8:50 pm in Room 138 LS
<b>Course Materials</b>	<i>Principles of General Chemistry</i> , 1st Edition, Silberberg <b>required</b>  <i>Student Solutions Guide</i> , 1st Edition, Silberberg <b>optional</b>
<b>Grading Policy</b>	Homework 40% Tests (3) 60%
<b>Points and Grades</b>	A ≥85.00%    B ≥75.00%    C ≥65.00%    D ≥55.00%
<b>Test Topics</b>	Test 1: Chpts 10-13                      March 2 Test 2: Chpts 16-19 Final: Chpts 10-21                      May 11
<b>Make-up Policy</b>	<b>No</b> make-up exams will be given.
<b>Examination Needs</b>	• Scientific Calculator (You may <u>not</u> use a graphing calculator or a calculator capable of storing alpha-numeric/textual material.) • No. 2 pencils with eraser <i>Students are <u>not</u> allowed to have access to cell phones during any exam.</i>
<b>Bomb Threats</b>	In the event of a bomb threat to a specific facility, University Police will evaluate the threat. If required, exams may be moved to an alternate location, but <b>exams will not be postponed</b> . UT-Arlington will prosecute those phoning in bomb threats to the fullest extent of the law.
<b>Cell Phones/Pagers</b>	Please turn cell phones off when in class
<b>Chapter Problems</b>	Working through problems is the <b>BEST</b> way to learn the material in this course. Work through as many end of chapter questions as you can.
<b>Dropping the Course</b>	The last day to drop the course with a “W” is April 3.
<b>Chemistry Assistance</b>	<u>Science Education and Career Center</u> : (Room 106 Life Science Building) Provides a variety of materials for assisting Chemistry students. These materials include old Chemistry1442 exams and ThinkWell Lectures on CD.

**Learning Objectives**

- 1) Predict the properties of solutions;
- 2) Utilize chemical kinetics and to help determine reaction mechanisms, and perform calculations related to the rates of chemical reactions;
- 3) Apply principles of chemical equilibrium to gas phase equilibria, homogeneous equilibria, heterogeneous equilibria, acid-base equilibria, and solubility and complex ion equilibria;
- 4) Use the concepts of thermodynamics to predict the spontaneity of processes, as well as the changes in free energy, entropy, and enthalpy;
- 5) Apply basic concepts of electrochemistry and be able to use standard reduction potentials to calculate quantities involved in an electrochemical reaction;

**Strategies for Succeeding in SCIE 5356**

1. Attend *every* class.
2. Work as many end-of-chapter problems as possible. Do not look in the solutions manual until you have given your best effort to solve the problem on your own.
3. Make use of Dr. Hale's office hours.
4. Prior to class, read the chapter that will be covered in lecture.
5. Review your lecture notes after each class. Correct obvious errors and note topics which require further study or clarification.
6. Use practice tests from the Science Education and Career Center.
7. Spend the necessary amount of time studying chemistry. The rule of thumb for succeeding in Chemistry is three hours of study for every hour of lecture. This means that at a minimum you should plan to study Chemistry nine hours each week.
8. Don't procrastinate. These concepts take time to sink in, and you may have to practice these exercises over a period of many days in order master the necessary skills.
9. Form a study group. This is your first avenue for getting help. Be able to communicate with each other on short notice, not just before class.

**Drop for Non-Payment of Tuition**

If you are dropped from this class for non-payment of tuition, you may secure an Enrollment Loan through the Bursar's Office. You may not continue to attend class until your Enrollment Loan has been applied to outstanding tuition fees.

**Pass or Fail Grades**

If P or F is a grade option in this class and you intend to take this class for a pass/fail grade instead of a letter grade, you **MUST** inform the instructor, through the necessary paperwork, of your intentions **BEFORE** the census date (February 4).

**Americans with Disabilities Act**

The University of Texas at Arlington is committed to the spirit and letter of federal equal opportunity legislation. The Americans with Disabilities Act (ADA) provides those with disabilities with the same opportunities as all citizens.

If you require an accommodation based on disability, I would like to meet with you in the privacy of my office, during the first week of the semester, to make sure you are appropriately accommodated.

**Academic Dishonesty**

All students are expected to pursue their scholastic careers with honesty and integrity, and the Department of Chemistry and Biochemistry will not tolerate academic dishonesty in any form. "Scholastic dishonesty includes but is not limited to cheating, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents' Rules and Regulations, Part One, Chapter VI, Section 3, subsection 3.2, Subdivision 3.22)

Examples of academic dishonesty includes:

- exchanging answers or information during a test or quiz
- looking at another student's paper during a test or quiz
- bringing notes in any form into the test or quiz, including written notes (crib sheets), digitally stored information (including formulas, constants, alpha-numeric material or text), or notes stored in any other medium
- looking at a book or other source during the quiz or test

During tests or quizzes, students are not allowed to use any hand-held calculators or computers which possess the capability of storing alpha-numeric or textual material. If the instructor allows the use of calculators on a particular test, then students may only use scientific calculators which are non-programmable. In addition, students are not allowed to have access to digital pagers during any test or quiz. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and dismissal from the University. Since dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced.

**Copyright Statement**

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