Chemistry 182 – General Chemistry II
WINTER Quarter 2006
MWRF 11:00-11:50am, SCI 147

INSTRUCTOR: Dr. Timothy L. Sorey
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OFFICE HOURS: Mon. – 9-10am , Wed. – 10-11am, Thurs. – 12-1pm, and Fri. – 8-9am
Outside of these office hours will be by appointment only.

Course Description:

This is the second quarter of the general chemistry series for science majors. CHEM 182 is a four-credit course that is designed to integrate concepts and methodologies of chemical sciences that was learned in the first quarter. By the end of the quarter, you should be competent with molecular geometry and bonding theories, gases, intermolecular forces of liquids and solids, properties of solutions, and chemical kinetics. Be sure to utilize the class textbook wisely, reading each section before it is presented in class and using it to review your personal understanding after each lecture. Blackboard will be used as a tool for you to access class notes electronically, so please be sure to log-in and enroll as the instructor describes in the first few lectures.

Course Materials:

Required:
Chemistry: The Central Science by Brown, Lemay and Burnsten, 10th Edition.
Recommended:
Chemistry: The Central Science by Brown, Lemay and Burnsten, 10th Edition. Solutions To Exercises" Manual - (4 copies will be reserved at the Library at the Reference Desk)

Specific Learning Outcomes and Lecture Assessments:

Specific student learning outcomes:

When completing this course, students should be able to:

1. Develop a competent understanding of the chemistry principles and concepts that lead up to and include molecular geometry and bonding theories, gases, intermolecular forces of liquids and solids, properties of solutions, and chemical kinetics.
2. Work as an individual or as a group in solving problems.
3. Recognize practical or 'real-world' applications of chemistry content knowledge that is presented in class.
4. Formulate reflective questions which are important to the critical thinking skills and discovery processes of scientific research.

Lecture Assessments:

EXAMS

The 3 term exams will be worth be worth 100 points each. They will cover material as indicated in the schedule. The final exam is a **comprehensive final** for the quarter and will be worth 150 points.

Instructor's policy on use of calculators:
As you enter the lecture room on exam day, you must show your instructor and his helpers that the memory to your programmable calculator has been zeroed. If you cannot perform this task, expect that a standard calculator will be assigned to you for your personal use on the given exam.

QUIZZES

With the exception for exam weeks, there will be a **weekly quiz** that is distributed at the times listed on the attached schedule. It will be comprised of problems that come *directly* from the assigned homework that is posted each week on your Blackboard account. Although the homework questions are not turned in for credit, the quiz is designed to reflect whether you have working on them or not. *(The lowest quiz will be replaced by the average of ALL six quizzes.)*

IN-CLASS ASSIGNMENTS

Before each exam, the class session will be dedicated to a problem set that is handed out. You will have about 40 minutes to answer the questions. You may use your notes, your book, and even your partner to complete this task on time. These assignments are worth 10 points. After you turn them in, an answer key will be offered to you so that you can use it to study for the exam.

GRADING

Your grade will be based upon your total points in the course:

BlackBoard Enrollment	1 X 15 = 15 points
Exams	3 X 100 = 300 points
Final Exam	1 X 150 = 150 points
Quizzes	6 X 15 = 90 points
In-Class Assignment	3 X 10 = 30 points
	TOTAL = 585 points

The approximate final grade breakdown will be:

A > =93%
93% > A- >= 90%
90% > B+>= 87%
87% > B >= 83%
83% > B- >= 80%
80% > C+>= 77%
77% > C >= 73%
73% > C->= 70%
70% > D+ >= 67%
67% > D >= 63%
63% > D- >= 60%
60% > F

MISSED or LATE WORK

Students who have conflicts with quizzes, exams, or in-class assignment days due to other University functions (sports, band, etc.) may make other arrangements with the instructor if done so no less than ***48 hours*** prior to the time conflict. Conflicts that arise from personal illness or family emergencies must be brought to the instructor's attention prior to these days whenever possible and will be discussed on an individual basis. In-Class Assignments will only be accepted IN CLASS.

Online Learning with Blackboard:

This course uses the Blackboard (http://courses.cwu.edu) online learning tool. Blackboard offers this course syllabus, lecture notes, assignments and important announcements available 24 hours a day, 7 days a week. It is *your responsibility* to check Blackboard regularly so that you are aware of course changes. Before using Blackboard you have to activate your Netware account (if you haven't already) and enroll in this CHEM 182 course section.

You will need this ID in order to enroll yourself in the CHEM 182 Blackboard course by Friday, January 6th, 2006 to receive 15 points. This course is designated by course **ID: CHEM182.02_W06**. For more information on how to perform this task, please type the following URL into your web browser http://www.cwu.edu/~media/cwuonline/getstarted.html and carefully follow the instructions *exactly*.

Tentative Course Schedule:

	Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Week 1 1/2			**Discuss Syllabus**	8.1-8.5 *review*	8.5-8.8 *review*
Week 2 1/9	9.1-9.2	*No Lecture*	9.3-9.4	9.5	**Quiz 1** 9.6-9.7
Week 3 1/16	**Martin Luther King Holiday**	*No Lecture*	10.1-10.3	10.4	**Quiz 2** 10.5-10.6
Week 4 1/23	10.7-10.8	*No Lecture*	10.8-10.9	*In-Class 1*	**Exam 1**
Week 5 1/30	11.1-11.3	*No Lecture*	11.4	11.5-11.6	**Quiz 3** 11.7-11.8
Week 6 2/6	13.1	*No Lecture*	13.2-13.3	13.3-13.4	**Quiz 4** 13.5
Week 7 2/13	*In-Class 2*	*No Lecture*	**Exam 2**	13.5-13.6	13.6
Week 8 2/20	**President's Holiday**	*No Lecture*	14.1-14.2	14.3	**Quiz 5** 14.3-14.4
Week 9 2/27	14.4	*No Lecture*	14.5	14.6	**Quiz 6** 14.6-14.7
Week 10 3/6	14.7	*No Lecture*	*In-Class 2*	**Exam 3**	*Exam Review and Study Session*
Week 11 3/13 FINALS WEEK					