Chemistry 1425  Advanced General Chemistry (HONORS)  Fall Semester 2016

Lectures: MWF 8:30-9:20, PHSC 416  Recitations: F 1:30-2:20, PHSC 120
Laboratory (Sec 11): MW 2:30-5:20, PHSC 435  Laboratory (Sec 12): TR 2:30-5:20, PHSC 435

FINAL EXAMINATION, Friday, December 16th, 10:30 AM - 12:30 PM

Instructor: Prof. Charles Rice  Office: SLSRC 1640 and CHBA 219
Office Phone: 325-5831  Office Hours: 9:30-10:30 AM M/W
E-mail: rice@ou.edu

TA (Sec 11): Mr. Erik Alred  Office: SLSRC
TA (Sec 12): Ms. Victoria Anderson  E-mail: SLSRC

Prerequisites: Admission to Honors Program; STEM major and four years of high school math and 1 year high school chemistry, or permission of instructor. Designed for STEM majors well prepared in high school chemistry and math. Topics covered at an advanced level of understanding. The topics include: nature of solutions, equilibrium, thermodynamics, acid and base properties, kinetics and electrochemistry, gas laws and changes in state, molecular structure. Laboratory.

Objective: Earn up to 10 credit hours in chemistry. Prepare to successfully complete future chemistry courses by learning (a) general problem-solving techniques, (b) how to apply the techniques to solving new problems in chemistry, and (c) the major concepts of modern chemistry. Develop fundamental laboratory skills. Learn about the chemical literature and laboratory resources. Practice technical writing. Learn to think like a scientist.


Grading: Final grades will be assigned based on total points accumulated.*
The maximum possible points are approximately 650.

*The instructor reserves the right to change by addition and/or subtraction and of the material contained in this syllabus. This includes, but is not limited to, course content, assignments, due dates, and portions(s) of the grade assigned to individual items within the course.

To earn the letter grade, you must achieve:
90% of the points for an A
80-89.99% of the points for a B
70-79.99% of the points for a C
60-69.99% of the points for a D
59.99% and below is an F.

Each assignment counts toward the final point total as follows:

Quizzes 10 @ 10pts each  100* (this may change if more/less than 10 quizzes are given, or if the points of any particular quiz changes for any reason)
Two examinations: 200 (100 each)
Laboratory: 250
Final examination: 100
Conduct: Students are expected to behave according to standards of proper conduct and are responsible for knowing the University of Oklahoma’s Academic Misconduct Code. The full text of the Code is available on the OU web page [http://www.ou.edu/provost/integrity/](http://www.ou.edu/provost/integrity/). The Code simply states that students may not cheat, those who are accused deserve due process and a fair hearing, and those who are found guilty of cheating will be penalized. Any student who chooses to engage in academic misconduct (including cheating, plagiarism, and any other action that may improperly affect evaluation) will be subject to sanctions in accordance with the Code. Dr. Rice routinely recommends assignment of a grade of “F” for the course and expulsion from the University for all such violations.

Homework: On-Line using Mastering Chemistry A new homework assignment will be distributed approximately every 1-2 weeks. Homework will allow students to practice concepts presented in lectures and assigned reading and expand upon those concepts to solve new problems. Students are encouraged to work on homework in small groups, discuss questions with me, and check answers against the correct solutions. The homework will not be graded, similar questions will appear on quizzes and examinations, so it will be to your advantage to do the homework problems and understand their solutions. You cannot do well in this class without doing the homework problems and understanding the solutions!

Quizzes: On-Line quizzes using Mastering Chemistry

Lab Reports: Refer to the lab manual and the lab TA.

Recitation Participation: During Friday afternoon recitations, we will either solve problems, prepare for the lab with a prelab exercise, discuss course content/confusion. Think of this as a large study hall where you will work in small groups. We may even have one group present the solution to a problem to the class. Quiz/group work will emphasize material covered in the lectures since the previous quiz, but may include any material covered previously in any aspect of the course, including lectures, reading, laboratory experiments, etc.

Examinations: There will be two examinations during the semester, plus one final exam (non-comprehensive). Examinations will be closed-book, in-class tests, worth 100 points each. Anyone who cannot attend one the examinations should make prior arrangements. The exams will be from 8:30-9:30 am. With unanimous class approval, we can start at 7:30 am.

Exam corrections will be permitted. After the exam is returned, you can correct the wrong answers for ½ of the credit. The corrected exam must be turned in at the date/time specified.

Special Situations: If you miss a quiz or examination without a verifiable illness or emergency, a grade of zero will be given for the quiz/test. You have one week after any illness or emergency to document your special circumstances before a grade of zero is assigned.

The University of Oklahoma is committed to providing reasonable accommodations for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with the instructor as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone (405) 325-3852 or TDD only (405) 325-4173.
Everyone should acquaint themselves with the University’s codes, policies, and procedures involving academic misconduct, grievances, sexual and ethnic harassment, and discrimination based on physical handicap.

**Reserve Materials:** Lecture notes, homework solutions, and answer keys for examinations will be placed on D2L.

**Extra Credit:** There will be NO EXTRA CREDIT in this class.

**Make-ups:** There will be no make-up tests given. Verifiable illness or emergencies will result in a grade being assigned to the missed examination(s) and quiz(izes) based on your performance on the other examination and quiz(izes). The final examination is mandatory and in the event of a verifiable illness or emergencies make-ups will be arranged.

**Disclaimer:** The instructor reserves the right to change by addition and/or subtraction and of the material contained in this syllabus. This includes, but is not limited to, course content, assignments, due dates, and portions(s) of the grade assigned to individual items within the course.

**Keys to Effective Learning/Performance:**
- Read the assigned text pages both before and after class.
- Regularly solve as many homework problems and exercises as possible.
- Attend class regularly, and ask questions.

**Drop Day:** The last day to drop with an automatic "W" is October 24. The last day to drop with the permission of the Dean is December 5. No Record of Grade on Dropped Courses is Aug. 18-29. Please talk with me before dropping.

CHEM 1425
Honors General Chemistry
Fall Semester 2014

**Course Content:**
Disclaimer…I cannot give you exact chapters and reading assignments on the first day of class. We will figure those out as we go along.

**FINAL EXAMINATION, Friday, December 16th, 10:30 AM - 12:30 PM**