

# Physical Chemistry I Syllabus

## Course Syllabus

### Fall 2011

**Course:** CHEM 3503 Physical Chemistry I

**Course Description:** Mathematical approaches to the physical properties of chemical systems, including gas laws, thermochemistry, equilibria, liquids and solutions, solids and reaction rates.

**Prerequisites:** Quantitative Anal., Organic I Laboratory, Calculus based Physics I and Calc. I.

**Instructor:** Dr. Mike Jezercak **Office:** H320C **E-mail:** [drjez@uco.drjez.com](mailto:drjez@uco.drjez.com)

**Office Hours:** 10:00 a.m.-10:50 a.m. M, W, F, 10:00 a.m.-11:50 a.m. Th and by appointment.

**Course Objectives:** Students, upon completion of this course will understand and utilize the Calculus based analysis of the areas of physical chemistry that include: Ideal and real gases, pure liquids, solutions and solids, thermodynamics each of these systems, and kinetics. Methods utilized will be analytical and numerical including advanced computer methods.

**Class Time:** 8:00 a.m. – 8:50 a.m. M, W, F

**Course Text:** Raff, Lionel M. "Principles of Physical Chemistry" Prentice-Hall, NJ 2001

**Other Resources:** Other references will be given in class. Students must have access to a computer with plotting and mathematical software and a calculator. Those without such access have computers available to them in the Chemistry Student Computer Laboratory H 318.

**Evaluation:** Final grades will be based on the results of 4-6 regular classroom exams, quizzes as needed and a final examination. In the event of a serious illness or emergency, one exam grade may be discarded. No other grades will be discarded and there will be no make-up labs or exams. Grades will be assigned based on the following percentages:

**Weighting:**

|                        |     |
|------------------------|-----|
| Exams and quizzes      | 75% |
| ACS Section Final Exam | 25% |

**Grade Distribution:**

|         |
|---------|
| A = 85% |
| B = 70% |
| C = 55% |
| D = 40% |

**Audit:** Students desiring to audit this course will be assessed a satisfactory grade by maintaining a letter grade of "C" or better.

**Attendance:** Attendance to all classes is required. No make-up exams will be given.

**Note: Additional:**

"The University of Central Oklahoma complies with Section 504 of the Rehabilitation Act of 1973 and the American with Disabilities Act of 1990. Students with disabilities who need special accommodations must make their requests by contacting Disability Support Services, at (405) 974-2516. The DSS Office is located in the Nigh University Center, Room 309. Students should also notify the instructor of special accommodation needs by the end of the first week of class." In addition, please include the Fall 2011 Academic Affairs syllabus attachment or the electronic link

<http://www.uco.edu/academic-affairs/files/aa-forms/faculty/StudentInfoSheet.pdf>.