

# Physical Chemistry I Syllabus

## Course Syllabus

### Fall 2008

**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 **Telephone:** 974-5018

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**Office Hours:** 10:00 a.m.-10:50 a.m. M, W, F and 8:00 a.m. – 9:00 a.m. Tues  
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 an illness or emergency, one exam grade may be discarded. An absence on an exam will be construed as such. 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 information concerning University class policies is available at:

<http://www.busn.ucok.edu/academicaffairs/StudentInfoSheet.pdf>