Syllabus
Chemistry 374, Section 001
Physical Chemistry
MWF, 12:00 pm – 12:50 pm, Currens 315
Fall 2015

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Office Hours: MWF 11am – 12 noon, W 1 – 2pm; other times by appointment or when available.

Textbooks:

Prerequisites: 1 year of college physics, 1 year of calculus and Chem 202.

Goals of the Course: In pchem I, it is desired to give the student a basic grounding in 2 of the four major areas of physical chemistry: Thermodynamics and Chemical Kinetics including Kinetic Theory of Gases. In order to accomplish this, weekly reading assignments will be given as well as a series of laboratory experiments to carry out. Completing the reading assignments on a timely basis is preferable and more rewarding than last minute cramming. The lecture will cover the following chapters:

2. First law of Thermodynamics.
4. Fundamental Equations of Thermodynamics.
5. Chemical Equilibrium.
6. Phase Equilibrium.

A laboratory syllabus will be made available on the first lab meeting as well as online.

Attendance Policy: Although strict attendance is encouraged, illnesses do occur. Keeping this in mind, students will be allowed to make up missed exams, quizzes and homework provided that the absence is an excused absence and is reported on the OARS system. Documentation must be given to the instructor within one week after the student returns to class.

Definition of Excused Absences: Excused absences include: documented illnesses, documented family medical emergencies, military commitments, WIU required athletic trips, and other absences excused by the course instructor.
**Hour Examinations:** Hour examinations given on the following dates will count as 54% of the final grade

- September 25, Friday - Chapters 1 - 3
- October 28, Wednesday - Chapters 4 - 6
- December 14, Monday - Chapters 17 – 18

**Final Examination:** A final examination will be given on Monday, December 14th, 2015 from 1:00 pm to 2:50 pm.

**Homework:** Since critical thinking and problem solving are important components of chemistry; homework will be assigned regularly in order to help students grasp principles and concepts discussed in class. Regular practice will help your overall exam scores. Homework will contribute 11% to total points.

**Short Quizzes:** A series of announced quizzes will be administered throughout the semester. As with homework, quizzes should increase your understanding and exam scores. These will contribute approximately 10% to the final grade.

**Laboratory:** Lab will count as 25% of the final grade. **You must earn at least 70% of the maximum points attainable (200) in lab or you automatically fail lab and the course.**

**Grading:** You must attain passing scores in both the lecture and lab in order to pass the course. Letter grades for the course will be assigned based on the following point system out of a maximum of 800 points:

- $A \geq 740 > A^- \geq 680 > B^+ \geq 640 > B \geq 600 > B^- \geq 560 > C^+ \geq 520$
- $> C \geq 480 > C^- \geq 440 > D^+ \geq 400 > D \geq 360 > D^- \geq 320 > F$

**Additional Required Expenses:**
A scientific calculator (including graphing calculators) is required for the course.

Eye protection is required and must be purchased by the student.

Students are expected to wear clothing that completely covers the feet and legs in lab. (Sandals and shorts are not appropriate dress in lab). Alternatively, students may purchase lab coats or aprons to cover themselves.

**Outside work requirements for the course:** Students are expected to study, review and learn all material discussed in lecture, as well as read assigned chapters in the textbook, and to work assigned practice problems/questions/terms listed in class or on Western Online. Generally a minimum of 2 to 3 hours of outside study time is required for each hour of class time for this course.

**Chemistry Resource Center:** **Currens 107.** Free tutoring and/or help is provided by the department through the Chemistry Resource Center. General hours are 8:00 am – 5:00 pm. See schedule for exact hours.

**WIU Policies:** It is the policy of Western Illinois University to accommodate individuals with disabilities pursuant to federal law and the University's commitment to equal educational opportunities. It is the responsibility of the student to inform the instructor of any necessary accommodations at the beginning of
the course. Any student with a disability requiring accommodations should contact the Office of Disability Support Services.

In accordance with University policy and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. It is imperative that you take the initiative to bring such needs to the instructor’s attention, as he/she is not legally permitted to inquire about such particular needs of students. Students who may require special assistance in emergency evacuations (i.e. fire, tornado, etc.) should contact the instructor as to the most appropriate procedures to follow in such an emergency. Contact Disability Support Services at 298-2512 for additional services.

Emergency Preparedness: The WIU Office of Risk Management and Emergency Preparedness provides resources on how to respond to emergency situations. Please view the video resources at www.wiu.edu/rmep/ (Click “Resources” on the right side of the page). If the fire alarms sound and/or students are asked to evacuate the building all students should proceed immediately to the nearest exit and gather at the southwest corner of the Higgins parking lot (near the fence) until the “all clear” is given. The following action is prohibited under the Student Conduct Code: Disorderly Conduct: Any behavior which disrupts the regular or normal functions of the University community, including behavior which breaches the peace or violates the rights of others. Any student convicted of academic dishonesty, can receive a failing grade and may be subject to further academic penalties. Web address for Academic Integrity Policy (http://www.wiu.edu/policies/acintegrity.php)

Web address for Student Rights and Responsibilities: http://www.wiu.edu/provost/students/

CLASSROOM POLICIES: Other than a scientific calculator or laptop (for taking notes except during exams), data storage devices such as cell phones, IPods and MP3 players are not allowed to be used in the classroom at any time!

All hats, caps, and hoods that cover your ears are not allowed to be worn during a quiz or exam. The instructor reserves the right to assign seating for the students during exams and/or any other time deemed necessary.

Exam grades are based on the total number of correct answers including partial credit. All grades are final. No curve will be applied to exam grades, and no “retakes” will be allowed. No “extra point” assignments will be made or applied to grades. Students can view their individual quiz and exam scores on Western OnLine (WIU ECom is required for login).

No incomplete will be given to a student with a failing grade in the course. No incomplete will be given in this course unless the student experiences a documented emergency that takes him/her away from the university for at least two consecutive weeks and/or causes him/her to miss the final exam. The student must notify the instructor of this emergency before the final exam.