CHEM 3351: Physical Chemistry
CRN 121
Fall 2015

**Instructor:** Dr. M. Dale Alexander; mdalexander@utep.edu

**Instructors Office:** Physical Science 309A

**Class Meeting Time:** MWF 9:30-10.20 UGLC 216

**Office Hours:** MWF 10:30 -11:00 AM or by appointment

**Science Librarian:** Robert W. Klapthor 747-5040 klapthor@utep.edu


**Course Goals:**
Course goals are based on Chapters 1 through 11 in the textbook

**Goal 1:** Introduction of fundamental concepts necessary for understanding thermodynamics: (a) Important macroscopic variables V,P, T(b) The relationship of atomic and molecular properties to macroscopic properties.(c) heat and work.

**Goal 2:** Development of the first, second and third laws of thermodynamics. Understanding the importance and mathematical properties of **State Functions** such as: internal energy, enthalpy, entropy, free energy.

**Goal 3:** Understanding chemical equilibrium from a thermodynamic point of view. The importance of entropy and free energy in discussions of chemical equilibrium.

**Goal 4:** Understanding important applications of thermodynamics such as: Gas properties and equations of state, solutions, phase diagrams.

**Goal 5:** Development of basic concepts in experimental and theoretical electrochemistry. The relationship of electrochemical quantities to thermodynamic functions.

**Study Questions:** Study questions pertaining to the material covered in class will be emailed to the students. Subsequently, the answers to these study questions will be emailed to the students. Questions on the examinations will be similar to those included in the sets of study questions.
**Hourly Exams:** You will have three hourly exams during the semester. These exams will be conducted during regular class time on Friday, Sept. 25, Friday, Oct. 23 and Friday, Nov.20.

**Final Exam:** Wednesday, Dec. 9, 2015, 10:00 am – 12:45 pm

**Grading:**
Semester Exams 65%
Final 35%

**Policies:**
Missed Hourly Exams will not be made up. You may provide a written excuse and if it is accepted by the instructor your grade will calculated on the basis of your other work during the semester. A final exam must be taken for a final grade in this course. No post exam excuses for missing the final will be accepted; pre exam excuses will be evaluated by the instructor.
There is no possibility for “extra credit” in this course

**Student Conduct:**
Please silence your cell phones and refrain from using them during lecture. Each student is responsible for notice of and compliance with the provisions of the Regents Rules and Regulations, which are available for inspection electronically at http://www.utsystem.edu/bor/rules/homepage.htm.

**Scholastic Dishonesty:**
It is the official policy of the University that all suspected cases or acts of alleged scholastic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition. It is contrary to University policy for a faculty member to assign a disciplinary grade such as an "F" or zero to an assignment, test, examination, or other course work as a sanction for admitted or suspected scholastic dishonesty in lieu of normally charging the student through the Dean of Students. Similarly, students are prohibited from proposing and/or entering into an arrangement with a faculty member to receive a grade of "F" or any reduced grade in lieu of being charged with scholastic dishonesty. Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.
**Plagiarism:**
"Plagiarism" means the appropriation, buying, receiving as a gift, or obtaining by any means another's work and the unacknowledged submission or incorporation of it in one's own academic work offered for credit, or using work in a paper or assignment for which the student had received credit in another course without direct permission of all involved instructors.

**Students with Disabilities Policy:**
If you have or suspect a disability and need an accommodation you should contact Disabled Student Services Office (DSSO) at 747-5148 or at dss@utep.edu or go to Room 106 Union East Building.

**Syllabus Change Policy:**
Except for changes that substantially affect the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice.