Chemistry 482: Physical Chemistry II -- Spring 2015

Course Syllabus

**Time and Location:** MWF 10:10 - 11:00 a.m. in Chapman Hall 125
**Professor:** Max L. Berkowitz ([maxb@unc.edu](mailto:maxb@unc.edu), Caudill 017, 962-1218)
**Office Hours:** Tuesday 4:00 - 5:00 and Thursday 11:00-12:00.

A good scientific calculator. You may not use any calculator or electronic device with stored information, including a cell phone, during the test and final exam.

**Class website** located at sakai.unc.edu

**Prerequisite:** Chem. 481. It is an honor code violation to be enrolled in this class without prerequisites.

**Course Objective:** Chem. 482 is a survey course dealing with basic ideas from Quantum Theory and Spectroscopy. Our objective is to get a clear understanding of these ideas and their connection to Chemistry. To accomplish this objective we will cover Chapters 7, 8, 9, 10, 12 and 13 from the textbook. Since Physical Chemistry is a quantitative science it is important to understand the concepts and also able to solve quantitative problems (for this you need to do your homework regularly).

**Assigned Problems:** Homework problems will not be taken up or graded, but it is essential that you do all the assigned ones and MORE. A solution manual is available at the Book Store. However, I strongly urge you to spend at least 30 minutes on a problem before looking at the manual. You will not learn the material otherwise. Unless you get to the point where you can do most of the problems without help from the solutions manual, you are not learning P-chem.

**Exams:** Homework will be assigned but not graded. **Short 6 midterm exams (30 minutes each)** will be given periodically during the course and cover the material studied.
The tentative dates for the exams are: Jan. 26, Feb. 12 and 28, March 23, April 9 and 20.
In case the exam date(s) will need to be changed the new date(s) will be announced at least a week in advance.

**Final Exam:** There will be a comprehensive final exam on Monday, April 27, 8:00 a.m., Chapman Hall 125.

**Grading:** If you take all 6 exams they will contribute 60% towards the final grade and final exam will contribute 40% towards the final grade.
No make-up exams will be given. If you miss an exam without a valid (written) excuse you will receive a score of zero. Valid excuses include sickness and family emergencies. Participation in sport events (but not as a viewer) or a trip to a graduate school or job interview is also a valid excuse. With a valid excuse, your final grade will be computed based on the following formulas:

- 5 exams (55%) + Final (45%)
- 4 exams (48%) + Final (52%)
- In rare cases, 3 exams (39%) + Final (61%)
- ...and in very rare cases, 2 exams (28%) + Final (72%)
- 1 exam (15%) + Final (85%) 

E-mail: It is unlikely that I will respond to detailed e-mail messages. Please bring your questions to me during office hours or see me after class.

Honor Code (Additional information is available at http://honor.unc.edu)
The University of North Carolina at Chapel Hill has had a student-administered honor system and judicial system for over 100 years. The system is the responsibility of students and is regulated and governed by them, but faculty share the responsibility. If you have questions about your responsibility under the honor code, please bring them to your instructor or consult with the office of the Dean of Students or the Instrument of Student Judicial Governance. This document, adopted by the Chancellor, the Faculty Council, and the Student Congress, contains all policies and procedures pertaining to the student honor system. Your full participation and observance of the honor code is expected.

Plagiarism in the form of deliberate or reckless representation of another's words, thoughts, or ideas as one's own without attribution in connection with submission of academic work, whether graded or otherwise. All academic work in this course, including homework, quizzes, and exams, is to be your own work, unless otherwise specifically provided. It is your responsibility if you have any doubt to confirm whether or not collaboration is permitted.