CHEM 482: Physical Chemistry II

Fall 2013

MWF 10:00am-10:50am in Kenan Labs 121

Instructor: Professor Andrew Moran
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Office Hours: Friday 11:00am-12:00pm

Textbook
Quantum Chemistry and Spectroscopy by Thomas Engel

Course Description
Fundamental principles of quantum theory will be established using model systems that include particles confined in potential energy wells, harmonic oscillators, the hydrogen atom, and small polyatomic molecules.

Topics
The majority of Chapters 1-14 and 16 will be covered. Emphasis will generally be placed on material that Engel does not designate as supplemental.

Lecture Notes
Lecture notes will be posted at Sakai

https://www.unc.edu/sakai/

Quiz and exam questions will generally resemble problems discussed during lecture but not posted online.

Preparation and Participation
Students should prepare for class by reviewing notes and reading ahead in the textbook. Attendance and participation is expected.

Quizzes
Six 50 minute quizzes will be given on the dates given below. The lowest quiz score will not contribute to the final grade. Quizzes will not be offered at alternate times, and a missed quiz will receive a score of zero.
Final Grade

The distribution of course credit is as follows.

Attendance and Participation=5% (Attend lecture and participate in problem solving)

Quizzes=60% (12% each – lowest quiz score dropped)

Final exam=35%

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.*