

INSTRUCTOR: Dr. Eugene Wagner

OFFICE: Chevron 107 & Thaw 400

OFFICE HOURS: see website

PHONE: 624-2861

E-MAIL: ewagner@pitt.edu - This is the best way to reach me.

CLASS WEBSITE: <http://chemicaleducation.org> Always refer to the site for updated information.

TEXTBOOK: *Physical Chemistry 2<sup>nd</sup> ed.*, by David Ball

**OBJECTIVES OF COURSE:** The primary purpose of this course is to increase your understanding of Physical Chemistry concepts and applications. Through this course you should gain an appreciation for the fundamental chemical principles that ultimately control and determine macroscopic physical and chemical properties. The most important attributes that you must bring to this course are an enthusiasm for learning and an open mind.

**ATTENDANCE POLICY:** Attendance at all lectures is very important. While we will have a very good textbook to help convey the information of this course, the emphasis of specific material and topics will be conveyed through the lectures. You will be responsible for all material and concepts covered in the lectures, assigned readings, textbook, and homework sets. **If you miss a graded assignment, you will receive a zero for that assignment. There are no make-ups for assignments.**

**DISABILITY SERVICES:** If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact me and the Office of Disability Resources and Services, 216 William Pitt Union, (412) 6487890/(412) 383-7355 (TTY) as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course.

**ACADEMIC HONESTY:** Students are responsible for knowing and observing the University of Pittsburgh Code of Student Academic Integrity, which forbids cheating, fabrication or falsification of information, multiple submissions of academic work, plagiarism, abuse of academic materials, and complicity in academic dishonesty. Academic evaluation in this course includes a judgment that the student's work is free from dishonesty. Students who are suspected of violating this code will be required to participate in the legal procedural process as outlined in the University Guidelines on Academic Integrity.

**CODE OF CONDUCT AND PROFESSIONALISM:** You will be required to always conduct yourself in a professional and courteous manner toward the professor and all students in the class. Failure to do so will result in loss of points for the class and the potential for removal from the course.

**TOPICS TO BE COVERED:** (subject to change) see class website for details  
Quantum Mechanics, Molecular Orbital Theory, Molecular Modeling, Statistical Thermodynamics

**EXAMS:** The tentative schedule is as follows:

EXAM 1	02/06/16	Quantum Mechanics - The Basics
EXAM 2	03/20/16	Quantum Mechanics - Real Systems
EXAM 3	04/03/16	Computational/Molecular Modeling - in class portion (40%) Computational project (60%) - see website
EXAM 4	Final Exam Week	Statistical Thermodynamics

**HOMEWORK:** Homework assignments will be listed on the course website. You will be accountable on exams for the content and concepts introduced and exemplified in these homework problems. Homework will be collected for a grade. All graded HW combined together will count as one Exam.

**GRADING SCALE:** There is no absolute grading scale for this course. However, estimated exam letter grades will be disseminated after each exam. Exams and your total HW score are each worth 20% of your total score for the course.