

# CHEM 3090

## Fall 2011

**Lectures:** MWF 10:45 – 11:35 am, Room HEB 2004  
**Instructor:** Professor Thanh N. Truong, 310 INSCC (Enter through INSCC 305).  
**Office hours:** By appointment (phone: 581-4301 or Email: Thanh.Truong@utah.edu)  
**Secretary:** Whitney Cox, 308 INSCC, 585-5118, wcox@chem.utah.edu  
**Textbook:** *Physical Chemistry for the Life Sciences (Second edition)* by Peter Atkins and Julio de Paula  
**Solutions manual:** by Charles Trapp and Marshall Cady

**Course Organization:** The aim of this course is to provide fundamental physical chemistry concepts to students of the life sciences. The organization of the course is as follows:

1. Biochemical Thermodynamics (Chapters 1 – 5).
2. The Kinetics of Life Processes (Chapters 6-8).
3. Biomolecular Structures (Chapters 9-11).
4. Biochemical Spectroscopy (Chapters 12-13).

**Discussion sessions:** Attending and participating in the discussion session are required and are counted for 5% of the total grade.

**Homework:** Homework problems will be assigned every Friday and due the following Thursday in the discussion session. Homework will be counted for 25% of the total grade.

**Computers:** P-Chem is a quantitative science and the problems will require computations. Some homework will require using a computer for the calculations and for plotting up the result. You can use a spreadsheet or math program such as Maple/MathCad/MatLab available on computers in HEB 1100 and 4209/4215 or in the library. In addition, you may be required to use a computational chemistry software to do your homework.

**Exams:** There will be two mid-term exams and a final exam. Each mid-term is worth 20% of the course grade and the final is comprehensive and worth 30%. Except in *very* special circumstances, **no makeup exams will be given**, so you should make every effort to take each exam. If circumstances beyond your control prevent you from attending any of the exams, contact Professor Truong before the exam period, not after. Bring a calculator (programmable is ok) and several writing implements. You will be given any integrals, or complicated formulae that might be needed, but you will need to remember the most important equations, etc. **Use of laptop computers, cell phones, Palm Pilots, pager, etc. are NOT permitted in the exams, and must be turned off and stowed in a backpack or handbag.**

**Midterm Exam Times:** To be scheduled. The first midterm will be after completing chapter 5 and the second after chapter 10. Check WebCT for specific dates.

**Final Exam:** Wednesday, Dec. 14th 10:30 – 12:30 AM

**Drops/Withdrawals:** Drop deadline: Wednesday, Aug. 31st. Withdraw: Friday, Oct. 21nd.

**Academic dishonesty will result in an automatic failing grade, as well as other sanctions by the University.**

**From CDS:** “The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you have need of accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in alternative formats with the prior notification to the Center for Disability Services.”