

CHEM 683
Physical Chemistry I
(Chemical Thermodynamics)

Fall 2008

M-W-F 9:10-10:00 AM
Kingsbury N113

SYLLABUS

- Instructor: Dr. Alex Pszenny
alex.pszenny@unh.edu
Morse Hall, Rm. 350, Tel: 862-1994
- Office hours: Monday 11:10-12, Wednesday 1:10-2:00 PM or by appointment
- Text: [Required] Atkins, P. and J. de Paula, *Physical Chemistry*, 8th ed., W.H. Freeman and Company, New York, ISBN: 0-7167-8759-8, 2006.
- [Optional] Atkins, P., C. Trapp, C. Giunta and M. Cady, *Student Solutions Manual to Accompany Physical Chemistry*, 8th ed., W.H. Freeman and Company, New York, ISBN: 0-7167-6206-4, 2006.
- Prerequisites: CHEM 403-404 or CHEM 405
MATH 425-426
- Corequisite: CHEM 685 (Physical Chemistry Laboratory)
- Grading:
- | | |
|----------------------|------------|
| Homework | 30% |
| Six in-class quizzes | 15% |
| Three 1-hour exams | 40% |
| Final exam | <u>15%</u> |
| TOTAL | 100% |
- Homework: Homework sets will be assigned for the material in each chapter covered. Some problems will be taken from Atkins & de Paula and some will come from other sources.
- Quizzes: Fridays September 19, October 10, October 24, November 14, Wednesday, November 26, and Friday December 12. Each quiz will be about 20 minute duration and cover material since the previous quiz. (You must be present during the entire Friday lecture to take the quiz. The lowest quiz score will be dropped. There will be no make-ups for missed quizzes. A missed quiz will count as the one dropped.)

- Hour Exams:** Exams will be held on Thursday evenings, September 25th, October 30th, and December 4th. There will be no class on the Friday following each exam. You must inform the instructor within two weeks of the start of classes if any of these dates conflict with a University-sponsored event in which you are a participant.
- Final Exam:** A comprehensive final exam will be given on Friday, December 19th from 8:00 to 10:00 AM.
- Exam Scoring:** You must take all hour exams and the final exam unless you have a verifiable, legitimate reason for missing (e.g., a doctor's note). Otherwise your score for the missed test or final will be set to zero.
- If you miss an hour exam for legitimate reasons, your grade for the missed test will be calculated by averaging the grade on the final and the grades on the hour exams you took.
- If you cannot take the final for legitimate reasons, you must contact the instructor as soon as possible to schedule a mutually agreeable date for a make-up final exam.
- Topics:** Atkins & de Paula Chapters 1-7. A lecture plan and provisional schedule will be posted on Blackboard about two weeks before classes begin.
- Miscellaneous:** Check Blackboard on a regular basis for announcements. Reading assignments and homework problems will be posted as well as answer keys to quizzes and exams.
- Snow days may occur. If a class is cancelled or if a large fraction of students is absent due to weather, a remedy will be announced on Blackboard.
- You will need a scientific calculator as well as access to some mathematical manipulation package. Excel is what the instructor will use for the most part. Feel free to use Mathematica, MathCAD, MatLab, etc., if they are more convenient for you.
- If you recognize any persistent class or office hour scheduling conflicts please contact the instructor early in the semester.
- Etiquette:** This will be a relatively large class. The following simple guidelines will help to maintain a positive learning environment for everyone:
- Please be on time. If tardiness is unavoidable please enter quietly and sit down immediately, causing minimal disturbance.

The class will end on the hour. Please avoid packing up ahead of time. If you must leave early, sit near a door and exit as unobtrusively as possible.

Please ask questions when they occur, and respect others who ask questions. Laughing at others' questions is unacceptable.

Please do not read during the lectures.

Please do not bring food or beverage other than a bottle of water into class.

If you have a complaint or suggestion regarding any aspect of the course, please discuss it with the instructor outside of class.