

Fall 2005 Syllabus

- Foundation** Physical chemistry is one of the most valuable courses in the chemistry curriculum. It is also one of the most challenging. You will do well in this course if you responsibly perform the following: (1) study the text, (2) participate in classroom discussions, (3) complete the homework assignments, (4) perform the laboratory experiments.
- Catalog** Examines thermodynamics, kinetics, and quantum mechanics with applications to physical and chemical properties of matter. Fall semester. Lecture 3 hrs, laboratory 3 hrs. *Prerequisites: Chem 341, 351/353; Math 161/162. Co- or Prerequisite: Physics 104/184 or 231/281.*
- Text** Physical Chemistry, 7th Edition, Peter Atkins, W. H. Freeman and Company, New York, 2002.
- Office Hours** Grote 329, Monday - Friday, 8:30 - 9:30 and by appointment. Please see me in person. Talking face-to-face is infinitely better than phone calls or e-mail.
- Attendance/
Etiquette** You are required to attend all lectures. Examinations will stress material covered in class. You are expected to arrive on time. Pagers and cell phones must be turned off. You must staple together multi-page homework assignments. There is a stapler in the chemistry library. Sheets from a spiral binder must have the spiral residue cut off.
- Homework** Completing the homework assignments is absolutely essential for mastering physical chemistry. Copying answers from the solutions guide will not help you develop the necessary thinking skills. You are encouraged to start the assignments early enough so that you can see me for help if you are stumped on a problem.
- 13 assignments will be given during the term. The best 12 homework grades will be counted. Homework is due at the beginning of the period. Late homework will not be accepted. If you fail to turn in an assignment, it counts as the dropped grade. Any additional assignments not turned in count as zeros. Homework comprises 20% of the course grade.

- Examinations** Four examinations will be given during the semester. The best three exam scores will be counted. If you miss an exam, it counts as the dropped score. Any additional exams that are missed count as zeros. If you know beforehand that you will be away during an exam, see me in advance. Examinations will comprise 40% of your course grade.
- Laboratory** You must register simultaneously for Chem 371 lecture and laboratory. The laboratory will comprise 25% of your course grade. If you are repeating the course, you may be allowed to use your previous lab grade. You must see me during the first week of class about this possibility.
- Final Examination** We are planning to use the *Physical Chemistry Thermodynamics Examination* prepared by the Examinations Institute of the American Chemical Society as the final exam. Your score on this exam will comprise 15% of your course grade.
- Grade** Your course grade will be based on the following: Homework 20%, Hour Examinations 40%, Laboratory 25%, and Final Examination 15%. The grading scale is: **A** 90.0-100.0; **B** 80.0-89.9; **C** 70.0-79.9; **D** 60.0-69.9; **F** < 60.0.
- ADA Statement** If you have a disability requiring assistance or special accommodations, please speak with me. The College Access Program in Frist Hall (phone 425-4006) provides services in this area.
- Also, the Counseling & Career Planning Center in the University Center (phone 4438) is available to help you manage stress and anxiety issues.
- Ethics** Science is an ethical endeavor. You are expected to work completely alone when performing any graded activity in this course. It is a violation of the UTC Honor Code to: (1) submit work that you have copied, or (2) assist another individual in copying.
- Instances of cheating may result in a grade of zero on the graded activity, a grade of F in the course, or if the instance is sent to the Honor Court the penalty may be suspension from the University.

Aug	22	Intro		Oct.	17	Ch. 8	Hk. 7
	24	Ch. 1			19	Ch. 8	
	26	Ch. 1			21	Ch. 9	Hk. 8
	29	Ch. 1			24	<i>Fall Break</i>	
	31	Ch. 2	Hk. 1		26	Ch. 9	
Sept.	2	Ch. 2			28	Ch. 10	
	5	<i>Holiday</i>			31	Ch. 10	Hk. 9
	7	Ch. 2		Nov.	2	<i>SERMACS</i>	
	9	Ch. 3	Hk. 2		4	<i>SERMACS</i>	
	12	Ch. 3			7	Ch. 11	
	14	Ch. 3			9	Exam 3 (Ch. 7-9)	
	16	Ch. 4	Hk. 3		11	Ch. 11	Hk. 10
	19	Ch. 4			14	Ch. 12	
	21	Exam 1 (Ch. 1-3)			16	Ch. 12	Hk. 11
	23	Ch. 4			18	Ch. 12	
	26	Ch. 5	Hk. 4		21	Ch. 25	Hk. 12
	28	Ch. 5			23	<i>Thanksgiving</i>	
	30	Ch. 5			25	<i>Thanksgiving</i>	
Oct.	3	Ch. 6	Hk. 5		28	Ch. 25	
	5	Ch. 6			30	Ch. 25	Hk. 25
	7	Ch. 6		Dec.	2	Exam 4 (10-12, 25)	
	10	Ch. 7	Hk. 6		5	Review	
	12	Ch. 7			7	-----	
	14	Exam 2 (Ch. 4-6)			9	Final 11:00 am	