

CHEMISTRY 230 — PHYSICAL CHEMISTRY I

FALL 1999

MWF 11:10–12:00 — SC 5212H

- Instructor:** Joel Tellinghuisen (Rm. SC 5521)
Office hours: 12–1 MWF, 4–5 T, 5–6 W, and appointments.
- Assistant:** Ying Cheng (Rm. SC 5430)
- Texts:** *Physical Chemistry* (4th Edit.), I. N. Levine, (McGraw-Hill, New York, 1995). Also recommended: *Solutions Manual to Accompany Physical Chemistry* (4th Edit.), I. N. Levine; and *Applied Mathematics for Physical Chemistry* (2nd Edit.), J. R. Barrante, (Prentice-Hall, Upper Saddle River, NJ, 1998).
- Web Site:** <http://www.vanderbilt.edu/AnS/Chemistry/Tellinghuisen/>
- Coverage:** A math review will cover roughly Chapters 1-5 in Barrante. Then Chapters 1-9 in Levine will be covered in sequence, followed by selected sections of Chapters 10, 11, and 17.
- Problems:** Problem sets, comprising 6-9 problems each, will be distributed weekly. In addition there will be numerous recommended problems from the text. These problems will not be collected and graded, but their mastery will be essential for good performance on the seven quizzes and three hour exams (*vide infra*). Solutions will be made available on the course web site.
- Exams:** There will be three hour exams plus a final. The hour exams are scheduled for **September 22, October 22, and November 17**.
There are no provisions for making up a missed hour exam. For excused absences, the final exam score will be substituted for the missed exam. This may be done for at most one hour exam; and except for extreme circumstances, excuses must be cleared in advance. Otherwise a missed exam will be scored as zero. Each hour exam will be offered a second time, on an evening following return of the exam. For students electing this option, the recorded score for the exam will be the average of the two scores.
All quizzes and exams (including the Final) will be closed-book, but you may bring one 8.5×11" sheet of notes (on both sides) to the in-class hour exams. The optional second offerings must be taken without notes or calculators.
- Quizzes:** There will be seven quizzes. They are scheduled for **September 3, September 15, October 4, October 15, November 1, November 10, and November 29** (take-home). As for the hour exams, there are no provisions for makeups. However, the lowest two scores will be dropped. Crib sheets are not allowed for the quizzes.
- Final Exam:** Scheduled at 3:00 p.m. on **December 9**. About $\frac{1}{4}$ on material covered after the third exam. A missed final exam will be scored as zero unless the student has secured an excuse for the absence from the dean of his or her college. In the latter case a grade of M will be given for the course, if the student could have passed by taking the final exam; and the student must take a makeup exam early in the following term.
- Grading:**
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| Quizzes (best 5) | 100 points |
| Hour exams | 300 points |
| Final exam | 200 points |
- Grade Computation:** Final grades will be assigned on the basis of absolute point scores, assuming a nominal total of 600:
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|----|-----|----|-----|----|-----|---|-----|----|-----|
| A | 560 | A– | 540 | B+ | 520 | | | | |
| B | 500 | B– | 480 | C+ | 460 | C | 440 | C– | 420 |
| D+ | 400 | D | 380 | D– | 360 | | | | |
- Vanderbilt Honor Code:** In effect for all exams and quizzes. Students will be expected to write and sign the following on each exam or quiz: "I pledge my honor that I have neither given nor received unauthorized aid on this (quiz/exam)."
- Help Sessions:** To be scheduled on evenings prior to each quiz and exam. Details TBA.