

# **CHEMISTRY 230 — PHYSICAL CHEMISTRY I**

FALL 2001

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:** Jiangtao He (Rm. SC 5516; Ph. 2-2643)

**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:** Problems will be recommended from the text and from the web site. These problems will not be collected and graded, but their mastery will be essential for good performance on the ten quizzes and three exams (*vide infra*). Solutions will be available on the course web site.

**Exams:** There will be three exams, given on the evenings of **October 4, November 8, and December 6**, during the time period 5:10-8:00 p.m.

There are no provisions for making up a missed exam. For excused absences, there will be a single comprehensive makeup exam, given at a time to be arranged. At most one missed exam can be excused; and except for extreme circumstances, excuses must be cleared in advance. Otherwise a missed exam will be scored as zero.

All in-class quizzes and exams will be closed-book, but you may bring one  $8.5 \times 11$ " sheet of notes (on both sides) to the exams (but not to the quizzes).

**Quizzes:** There will be ten quizzes, given weekly, except in exam weeks. Most of these will be done in class, but some will be take-home assignments. The quizzes will be given (or due on) Wednesdays, except for the week of October 22, when it will be Friday (Oct. 26).

There are no provisions for making up missed quizzes. However, the lowest two scores will be dropped. Crib sheets are not allowed for the in-class quizzes, but all course materials will be permitted for use on the take-home assignments (unless otherwise specified).

**Final Exam:** There is no final exam in this course. However, a portion of the third hour exam (about half) will be comprehensive in nature.

**Grading:** Quizzes (best 8) 200 points  
Exams 400 points

**Grade Computation:** Final grades will be assigned on the basis of absolute point scores, for a nominal total of 600: A 520 A- 495 B+ 470  
B 445 B- 420 C+ 400 C 380 C- 360  
D+ 340 D 320 D- 300

**Vanderbilt Honor Code:** In effect for all exams and quizzes. Students will be expected to write and sign the following on each graded assignment: "I pledge my honor that I have neither given nor received unauthorized aid on this (quiz/exam/problem set)."

**Help Sessions:** Held in lecture room (SC 5212H) 5:00-6:30 p.m. on the days before quizzes and exams.