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**LECTURE:**      ✕ MWF 10:40 - 11:30 a.m.  
                  ✕ 112 Angell

**LABORATORY:**   ✕ Section A01: W 12:50 - 3:35 p.m.  
                  ✕ Section A02: R 1:00 - 3:45 p.m.  
                  ✕ Section A03: R 5:30 - 8:15 p.m.  
                  ✕ All three sections are held in A141 Cook

**INSTRUCTOR:**   ✕ Giuseppe Petrucci  
                  ✕ A218 Cook - Office  
                  ✕ x60957  
                  ✕ [Giuseppe.Petrucci@uvm.edu](mailto:Giuseppe.Petrucci@uvm.edu)  
                  ✕ <http://www.uvm.edu/~gpetruc/>

**TEACHING ASSISTANT:**   ✕ TBD

**TEXT**             Atkins, Jones, "Chemical Principles: The Quest for Insight," 5th edition, W. H. Freeman & Co. ISBN 1429219556, available at the bookstore. This is the only Chemistry textbook that I've found that is *readable* in its own right but also covers the material at a depth that is appropriate for this course.  
*(required):*

**LAB MANUAL:** There is no lab manual for the course. Lab write-ups for all the experiments are available for download (as pdf files) from the Chem 35 course website [here](#).

**LAB NOTEBOOK:** A BOUND lab notebook (e.g., National #43-571) is REQUIRED and may be purchased in the bookstore. It must be well organized and all data must be recorded directly into it in pen.

**BREAKAGE CARD:** You must have one in order to check into the lab! Pay your \$40.00 to the kind people in the first floor stockroom (A143 Cook) and they'll give you a card that entitles you to all of the rights and privileges of a genuine Chem 35 student. Bring the card to *every* lab session. If you're careful with your equipment throughout the term, you should get most of your \$\$ back at the end of the semester when you check out.

**GENERAL LABORATORY GUIDELINES:** It goes without saying that your safety in the lab is of prime importance. For many of you, this will be the first time that you will encounter a number of truly hazardous substances in the lab. Please heed all warnings and handle these substances as directed!

At the end of the semester you will have to check out of the laboratory and replace (using your breakage card) any missing or damaged equipment. If you do not check out of the laboratory, you will not receive a grade or credit for

the course, and you will forfeit the breakage fee.

Remember your lock combination! There will be a charge of \$1.00, after the first week, if we have to look it up for you.

You are **required** to wear OSHA approved safety glasses or goggles while working in the laboratory. **Contact lenses** should **NOT** be worn in the lab; they can absorb and preconcentrate noxious vapors and are very dangerous should you accidentally get some chemicals in your eyes. If possible, wear your glasses to lab, instead! If you do not have prescription glasses and must use contact lenses, then you must use safety goggles and not safety glasses.

All work, data, observations, etc. are to be recorded in ink in your notebook, not on loose pieces of paper.

You are expected to keep the laboratory clean.

There is ample time to do all of the experiments in the scheduled time, provided that you are prepared when you arrive; i.e., if you have read and understand the material in the laboratory manual for that week's experiment. The schedule for the laboratory experiments is posted [here](#).

It is expected that every student will attend their regularly scheduled lab section. All lab sections are full and switching to another lab is extremely difficult to arrange even for one week.

If you **MISS** a lab for a documented sickness or family crisis, you need to notify your T.A. *immediately* or leave a phone message for your T.A. at the Chemistry Office (656-2594) **BEFORE** the lab so that arrangements can be made with the T.A. to make up the lab that same week. **Remember: if you miss more than two labs without a documented excuse, you will receive a failing grade for the course.**

**OFFICE  
HOURS:**

I will establish and announce office hours for the semester during the first week of classes. I will be available at other times as well (see me to make an appointment) and, of course, you are welcome to stop by my office at your convenience (but, if I am busy we will have to reschedule for another time). Also, I am *virtually* available via [email](#) for your questions; I check my email regularly every day (even on weekends), so you should be able to get an email reply to a question within 12 hours of your posting it to me (barring any unforeseen technical difficulties!).

**GRADING:**

There will be two semester exams and one comprehensive final exam. The two semester exams are scheduled for September 29th and November 4th (both Thursdays) beginning at 5:30 p.m. and ending no later than 8:15 p.m. in 118 Rowell. Please let me know as soon as possible if you have a known conflict with

this exam schedule. The date for the final exam will be 7:30 a.m. Friday, December 17th in 118 Rowell, and will cover material from the entire semester.

Your grade for the course will be determined as follows:

Laboratory: 250 points

Exam I: 150 points

Exam II: 150 points

Quizzes: 200 points

Final Exam: 250 points

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**TOTAL:** 1000 points

**Missed exams** Please make every effort not to miss an exam. If you have a ***scheduled*** conflict with an evening exam, you must notify me at least *one week before* the exam; I will then arrange an alternate time for you to take the exam. If you miss an exam for an invalid reason, you will receive a **ZERO** for a grade on that exam.

**Missed labs** Since the laboratories operate on an extremely tight schedule, it is expected that every student will attend their regularly scheduled lab section unless it is absolutely *impossible* for them to do so (i.e., due to a *documented* illness, being out of town due to a family problem, etc.). Oversleeping, studying for an exam, or just plain not being prepared are *not* valid excuses. If you must miss a lab for a valid reason, notify your lab instructor *before* the scheduled lab period (you can email your T.A. or call the Chem Department office, 656-2594, and leave a message for them, if necessary).

**Excused labs must be made-up the same week that they were missed.** To make-up a missed lab, find a lab section (preferably in the same room that you normally have lab) that you can fit into your schedule; contact the instructor for that section and ask them if there is room for you to make-up the lab; notify your regular lab instructor as to when and where you intend to make-up the lab and obtain any special instructions for your lab section from him/her. If you cannot make-up an excused lab, notify your lab instructor -- your grade for that lab will be your average lab grade for the semester (as determined at the end of the semester).

**You may not make-up an unexcused lab! You will receive a grade of zero for each unexcused lab. If you accumulate more than two unexcused labs, you will not receive a passing grade for the course!**

**LECTURE:** In order to learn the lecture material, one must work problems. To help you with this task, I will periodically hand out problem sets. The problem sets will not be graded, but I will collect them and make a note of the amount of effort expended on them and use that as a means of deciding borderline cases when assigning final grades.

For each problem set, I will prepare and hand out a detailed answer sheet. Please work through the problem set *before* looking at the answer sheet. If a particular problem is stumping you, move on to another one and go back to it later. If you still can't work the problem, follow through the solution on the answer sheet. Then, without checking the answer sheet, re-do the problem. Do this until you can solve all of the problems without looking at the answer sheet. Please feel free to work with others when working problems, but remember that you will be required to solve similar problems by yourself when you take the exams.

**THE WEB:** This syllabus and the accompanying [lecture](#) and [lab schedules](#) are also available on the web page for this course (<http://www.uvm.edu/~gpetrucc/courses/chem35/chem35.htm>). At that URL, you will also find all readings and problem sets as well as a general lecture outline (keyed to lecture dates). If there is interest, I will develop this to include links to appropriate web sites with content that can serve to complement or supplement the material presented in class.

Comments to [Giuseppe A. Petrucci](#). Last updated Friday, August 19, 2011