

Chemistry 222

Winter 2004

Instructor: Prof. George Wiger

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WWW: <http://web.pdx.edu/~gwiger>

Office Hours **Tu** 2:00-4:00pm- **SB1-304** (this is a small classroom)

In addition, the instructor will usually be available in his office, as follows

W Instructor is usually on campus 9am to 3:00pm and students should feel free to drop in or make appts.

Th Instructor will usually be available from noon to 2:pm

This syllabus contains important information regarding the structure and content of the course. Please read it carefully and make sure that you understand what is expected.

Text: *Chemistry-4th Edition*, McMurry and Fay, Prentice Hall

Note: Purchase of the Supplementary Materials (Study Guide, etc) is at the discretion of the individual student and is not mandatory)

Course Schedule

| Week of | Topic(s) | Reading |
|-----------------|--|----------------|
| January 5, 12 | Thermochemistry | Chapter 8 |
| January 19,26 | Gases Exam 1-Thurs-Jan 29 | Chapter 9 |
| February 2, 9 | Liquids and Solids | Chapter 10 |
| February 9,16 | Solutions | Chapter 11 |
| February 16, 23 | Kinetics Exam 2-Thurs-Feb 26 | Chapter 12 |
| March 1, 8 | Equilibrium | Chapter 13 |
| March 17 | Final exam-Tues, Mar 16-5:30-7:20pm | |

Basic Course Policies

Academic Integrity-It should not be necessary (**but it is**) to state that the expectation is that all students will maintain the highest standards of academic integrity and that the course will be conducted

in an atmosphere of mutual respect among all participants. Evidence or suspicion of improper behavior will be immediately referred to the proper campus authority for investigation.

Attendance-Attendance is not taken, but the student should be aware that the course only meets 20 times during the quarter. Thus, each session is equivalent to 5% of the total course. In that context, it should be obvious that repeated absences are likely to result in a less than satisfactory grade.

Calculators-The effective use of a scientific calculator is an invaluable skill. However, use of a calculator in a testing environment is a privilege, not a right. If it is felt to be appropriate, use of a calculator may be banned on certain quizzes.

Grading

There are four contributors to your course grade, weighted as shown below. Details on each of these are provided in following sections:

| | |
|--------------------------------|-----|
| 1. Online WWW based homework | 10% |
| 2. Quizzes | 20% |
| 3. Two Exams (Jan 29, Feb 26) | 45% |
| 4. Final (Mar 16) | 25% |

Course grades will follow the guaranteed breakdown:

| Score | Grade |
|-------|-------|
| ≥90 | A |
| ≥80 | B |
| ≥70 | C |
| ≥55 | D |
| <55 | F |

Some **very minor** adjustments to class performance (curving) may be made, but these will only result in slight lowering of the above standards and it is **extremely unlikely** that the 55% cutoff will be changed. + - grades will be used at the instructor's discretion.

Details

WWW Based Homework

This class will make extensive use of on line homework. In general, assignments will be distributed posted on the web on Tuesday at 5:00pm and are due by 5:00pm the following Tuesday. The links to the homework system and problem solving tutorials are found on the instructor's homepage. Students should expect to spend a **minimum of one hour** per week on the assignments and should budget time appropriately. The following guidelines apply:

1. Given the period allowed for the assignments to be completed, no allowances will be made for either network failures or a failure in student's own computer.
2. If more than 5 problems are assigned, you may submit the assignments in portions equal to one half the total number of problems assigned. Smaller portions cannot be submitted

3. You may repeat an assignment as often as you wish and will be given the highest score earned. **However, you may only repeat a page during the original assignment period.**
4. Late or makeup assignments **are not accepted** under any circumstances
5. Points are allotted as follows, for each page assigned:

| | |
|----------|-----------|
| >80% | 10 points |
| <80 >50% | 6 points |
6. On some assignments, the standard will be a minimum number of correct attempts, with no restriction on the total attempted.
7. **Name Submission**-When submitting your results, pay close attention to how your name is entered to ensure that you are properly credited. Use the following guidelines.
 - a. Always use the same name and do not use any punctuation (commas)
 - b. It is **recommended** that the name follow the format: **last first MI** all in lower case, spaced without commas. Example: **smith john j**
8. There is a set of pages, identical in format to the homework, which are available for problem practice. The link is on the instructor's home page. These pages can also be downloaded as a zip file and installed on individual computers, so that network connection is not required for their use. Network connection is required for doing the homework The link to the download file is on the instructor's homepage.

Quizzes

Brief (10 minutes max) quizzes will be given often (at least weekly). Regardless of the number of quizzes given, the lowest score will be dropped. If 12 or more quizzes are given, the lowest two scores will be dropped

Exams

There will be three exams, two period exams and the final. The dates and the percent weight of these are given above. The two period exams will be weighted as follows: Higher score 25%, lower score 20%.

On both exams and quizzes, there will be **no extra time for students arriving late. Make-up quizzes are not given.** Make-up exams are possible only with **prior arrangement** with the instructor. The format for exams and quizzes varies a little, but the emphasis is on problem solving and they are **never multiple choice.**

There is no magic formula or list of things that ensures the student will complete the course successfully. However, experience has shown that a few common sense items can make passage though the course much easier. Intellectual ability is seldom, if ever, the cause for lack of success.

1. Recognize that the instructor is a resource and utilize him. Do not hesitate to contact him whenever you feel it is necessary. Office visits are encouraged and welcomed.
2. Attend
3. Keep up
4. Participate/Ask Questions
5. Do the homework and go well beyond the assignments given. Do a lot of practice problems.
6. Visit the course web site for needed information, particularly posted assignments, notes and scores.