



**4. Homework.** Homework will be assigned very often. It is essential to your success in this class that you do all the assigned homework and the reading. Randomly homework will be collected and selected problems graded. A pop quiz in lecture counts as a homework.

### Quizzes & Exams.

*In lecture:* 1. There will be three Quizzes Covering the material of previous lectures.

2. There will be three exams. All dealing with more material than the quizzes

Each exam will be equally weighted.

*In lab:* After every experiment you will have to submit a brief lab report to your lab instructor. A pop quiz in lab counts as a lab report.

**Grading.** The final grade is calculated as follows:

*Exams 40%, Quizzes 20%, Homework 15%, Lab 25%*

The lowest grade obtained for a quiz in lecture, and a lab report will be dropped if you

have fulfilled all your assignments properly and submitted to the instructor in time. To

achieve this incentive, your attendance has to be 90%.

*Please be aware of the following rules:*

1. Tardiness, early leaving, and sleeping during lecture or lab sessions are considered disruptive behavior and are punished with an absence.

2. Fraudulent behavior during quizzes and exams is graded with a 0 (zero).

3. Copying of experimental data and lab reports is considered fraudulent behavior for the copier and originator. 4. Turning in lab reports after the due date (due time) will

result in deduction of points at the discretion of the instructor.

**Important Dates:** *Drop deadline:* Friday, October 17 (end of 9th week). After that date, the instructor is required to assign a letter grade that will

appear on your transcripts.

*Exam dates:* 1st exam--after 6 weeks, 2nd exam--after 12weeks

Final exam--Dec.19

*Holidays:* Labor day-- Sep.1 (M);

Flex day-- Oct. 11, (F)

Veteran's day-- Nov. 11, (T);

Thanksgiving--Nov.27,28(Th,F)

**Lecture Topics.** Each topic takes approximately two weeks. (The chapters mentioned

here are from Peters' text ).

1. Matter and Energy(Ch2) & Measurement and Calculations(Ch3).
2. Introduction to Gases(Ch4) & Atomic Theory and the Periodic Table(Ch5).
3. The Language of Chemistry . Nomenclature (Ch6) & Chemical Formula Problems (Ch7)
4. Chemical Reactions and Equations.(Ch8) & Quantity Relationships in Chemical Reactions (Ch9)
5. Chemical Bonding: The Formation of Ionic Compounds and Molecules(Ch11). The Structure and Shape of Molecules(Ch 12).
6. The Ideal Gas Law and Gas Stoichiometry (Ch 13). Liquids and Solids(Ch 14).
7. Solutions (Ch 15). The Water Equilibrium. The pH Concept (Ch 17).
8. A choice from the following topics: Net Ionic Equations (Ch16), Acid-Base Reaction (Ch17) or chem. Equilibrium (Ch19)

**Suggested computer programs and readings available in the Chem Labs.**

1. Applying, Math Survival Guide. Tips for Science Structures.
2. Lewis Structures. Program available in the lab.
3. Gebelein, Chemistry and our world.
4. Stoker, Introduction to Chemical Principles.
5. Falcon Software. Smith et al. General Chemistry.
6. Wynn, Inorganic Nomenclature Flashcards.

## Lab Rules and Lab Schedule CHEM 3A

-It is *MANDATORY TO USE SAFETY GLASSES AT ANY TIME THAT YOU ARE IN THE LAB*. Wearing a lab coat is optional, but highly recommended.

- You will have to perform all the experiments assigned by the lab instructor. When you miss an experiment for whatever reason you must make arrangements immediately with the lab instructor for a make-up. You are accountable to do this ASAP! A zero (0) grade will be given for a lab that is not made up.

-An overall average F grade for the lab means an F in the class.

-Prepare for the labs by reading the experiment ahead of time and doing the Advance Study Assignment.

### Chem 3A Lab Schedule Fall 1997

W / F	Lab assignment
8-20/8-22	Check in desk inventory. Introduction to safety in the lab. Take the Lab Safety Quiz. Sign the Lab Safety Agreement.
8-27/8-29	Experiment 1: Properties and Changes of Matter.
9-3 /9-5	Experiment 2: Significant Figures.
9-10/9-12	Experiment 3: Calibration of the Thermometer.
9-17/9-19	Review of Safety in the lab and review of Experiments 1-3. LAB QUIZ 1
9-24/9-26	Experiment 4: Separation of Cations by Paper Chromatography.
10-1/10-3	Experiment 5: Densities of Liquids and Solids.
10-8/10-10	Experiment 6: Empirical Formulas.
10-15/10-17	Experiment 7: Hydrates.
10-22/10-24	Review of Experiments 4-7. LAB QUIZ 2.
10-29/10-31	Experiment 8 : Percentage of Oxygen in Potassium Chlorate.
11-5 /11-7	Experiment 9 : Calorimetry.
11-12/11-14	Experiment 10: Names of Formulas and Compounds.
11-19/11-21	Experiment 11: Chemical Equations.
11-26/11-28	Experiment 12: Qualitative analysis of some common ions.
12-3 / 12/5	Experiment 12: Continued.
12-10 / 12/12	Experiment 13: Molecular Models: A Study Assignment.
12-17/12/19	Review of Experiments 8-12. LAB QUIZ 3. Turn in desk inventory in a clean and proper condition.

**Important:** Please check out your desk inventory with your lab instructor in the last week before the finals. We will have to put a hold on your grades if you omit this.