

CHEM 1040
GENERAL CHEMISTRY LABORATORY
AUTUMN QUARTER, 2001

Instructor: Dr. Balasingam (Verl) Murugaverl
Olin, Room 203
Phone 303-871-2941

Dr. Sheldon S. York
S. G. Mudd Building, Room 253
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T.A.:

Mailboxes: Chemistry Department Office: Olin205, x2436

Lab Location/Times:

Section 1	Wed. Afternoon	2:00-4:50 pm	Olin232
Section 2	Thurs. Afternoon	2:00-4:50 pm	Olin232
Section 101	Wed. Evening	6:00-8:50 pm	Olin232
Section 102	Thurs. Evening	6:00-8:50 pm	Olin225

- You are required to do **EVERY** tutorial/lab, if you miss your section you must make it up in the same week the lab is offered.
- If you cannot make your scheduled lab time you **MUST** get permission from your Teaching Assistant before changing.
- Homework/reports are due one week from the scheduled finish of the experiment. **A penalty of 10% per day will be charged for late work.**

Tutorials: There are five weeks of tutorials. During lab time you will work on worksheets to be handed in before leaving. Outside of lab you will have **homework** due at the beginning of the next lab. This homework is in addition to any homework due for lecture.

Reports: After the five weeks of tutorials there will be four weeks of experiments. A report for each experiment must be typewritten. A typical lab report should include:

- Your name and the date and title of the experiment.
- (5 points) A brief description of the objective of the experiment
- (30 points) Data Sheet
- (25 points) Calculations
- (15 points) Discussion/Conclusions
- (25 points) Post lab questions

The content and points assigned may vary for some of the experiments.

Notebooks: You will be required to have a lab notebook. This should be used to record your data and observations. While your notebook will not be graded, you must have your Teaching Assistant initial it at the conclusion of each lab exercise.

Prelabs: There are prelab assignments with each lab, to be done **before** coming to lab each week. Write your answers to these prelab assignments in your lab notebook. Your Teaching Assistant will initial it before you begin the experiment. If your prelab is not complete, you will not be allowed to begin the experiment. **THIS REQUIREMENT IS NOT FLEXIBLE. IT IS FOR YOUR PROTECTION AND THE OTHER STUDENTS IN THE COURSE.** You must come to lab prepared and informed.

Grading:	Tutorial Worksheets (75 pts each)	375
	Homework (25 pts ea set)	125
	Pre-labs (25 pts each)	100
	Lab Reports (100 pts each)	400
	total	1000

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TUTORIAL/EXPERIMENT SCHEDULE

WEEK	DATES	TUTORIAL/EXPERIMENT
1	Sept. 12, 13	Atoms, Elements, Isotopes, Periodic Table
2	Sept. 19, 20	Unit Conversions, Atomic Weight, Moles Check-in
3	Sept. 26, 27	Ionic Compounds, Molecules, Formulas
4	Oct. 3, 4	Percent Composition, Empirical and Molecular Formulas, Chemical Equations
5	Oct. 10, 11	Weight Relations, Limiting Reagents
6	Oct. 17, 18	Molecular Geometry and Bonding Safety Lecture
7	Oct. 24, 25	Gravimetric Analysis of $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$
8	Oct. 31, Nov. 1	Oxidation-Reduction Reactions
9	Nov. 7, 8	Enthalpy of Neutralization
10	Nov. 14, 15	Checkout