

CHEM 1540
UNIVERSITY CHEMISTRY LABORATORY
AUTUMN QUARTER, 2000

Instructor: Dr. Balasingam (Verl) Murugaverl
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Lab Location/Times:

Section 1	Tues. Afternoon	2:00-4:50 pm	Olin222
Section 2	Wed. Afternoon	2:00-4:50 pm	Olin222
Section 3	Thurs. Afternoon	2:00-4:50 pm	Olin225
Section 4	Thurs. Morning	9:00-11:50 am	Olin225
Section 101	Mon. Evening	6:00-8:50 pm	Olin225
Section 102	Tues. Evening	6:00-8:50 pm	Olin225
Section 103	Wed. Evening	6:00-8:50 pm	Olin225

- You are required to do **EVERY** 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.
- Reports are due one week from the scheduled finish of the experiment. **A penalty of 10% per day will be charged for late labs.**

Reports: The 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:	Pre-labs (25 pts each)	200
	Lab Reports (100 pts each)	800
	total	1000

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EXPERIMENT SCHEDULE

WEEK	DATES	EXPERIMENT
1	Sept. 11-14	Check-in/Safety lecture
2	Sept. 18-21	Empirical Formula of an Oxide
3	Sept. 25-28	Atomic Emission Spectroscopy
4	Oct. 2-5	Periodic Properties of the Elements
5	Oct. 9-12	Synthesis of $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$
6	Oct. 16-19	Molecular Geometry and Bonding
7	Oct. 23-26	Gravimetric Analysis of $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$
8	Oct. 30-Nov.2	Oxidation-Reduction Reactions
9	Nov. 6-9	Enthalpy of Neutralization
10	Nov. 13-16	Checkout