

CHEM 1040
INTRODUCTORY GENERAL CHEMISTRY LABORATORY
AUTUMN QUARTER, 2007

Instructor: Dr. Todd A. Wells
S. G. Mudd Building, Room 132
Email: towells@du.edu
Telephone: 303-871-2937

Mailboxes: Chemistry Department Office: Olin202, x12436

Section	Room	Day	Time	T.A.	Email
1	Olin 222	Monday	6:00-8:50 pm	Kellen Sorauf	ksorauf@du.edu
2	Olin 222	Tuesday	2:00-4:50 pm	Radhika Sreedhar	rsreedha@du.edu
3	Olin 222	Wednesday	6:00-8:50 pm	Kellen Sorauf	ksorauf@du.edu
4	Olin 222	Thursday	2:00-4:50 pm	Ignacio Garcia	igarcia@du.edu

- 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. **Any report turned in 15 minutes after the start of lab is considered one day late. A penalty of 10% per day will be charged for late labs. No labs will be accepted after 4 days from original due date.**

Tutorials: There are two 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.

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

Lab Reports

Lab Project Summary (100 points). The report for each experiment must be typewritten. A typical lab report should include:

Purpose of the Experiment (5 points). A one-or-two sentence statement of the objective(s), goal(s) or purpose(s) of the experiment.

Calculations (25 points). Sample calculations should be shown for each type of calculation required for the experiment. Calculations can sometimes be organized into a table.

Results (30 points). Relevant data, observations, and findings are summarized in this section. Tabulation of data, equations, charts, and figures can be used effectively to present results clearly and concisely. Schemes to show reaction sequences may be used here or elsewhere in the report. Do not reiterate the experimental procedure in this section.

Conclusions & Summary (15 points). A paragraph summarizing the main features of the report - the objectives, the findings and the conclusions.

Post lab questions (25 points).

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)	150
	Homework (25 pts ea set)	50
	Pre-labs (25 pts each)	100
	Lab Reports (100 pts each)	400
	total	1000

CHEM 1040
INTRODUCTORY GENERAL CHEMISTRY LABORATORY
AUTUMN QUARTER, 2006

TUTORIAL/EXPERIMENT SCHEDULE

WEEK	DATES	TUTORIAL/EXPERIMENT
1	Sept. 10-13	No lab.
2	Sept. 17-20	Check in/Atomic Emission Spectroscopy
3	Sept. 24-27	<i>Tutorial</i>
4	Oct. 1-4	Periodic Properties of the Elements
5	Oct. 8-11	<i>Tutorial</i>
6	Oct. 15-18	Molecular Geometry and Bonding
7	Oct. 22-25	Gravimetric Analysis of $[\text{Co}(\text{NH}_3)_6]\text{Cl}_3$
8	Oct. 29 - Nov. 1	Oxidation-Reduction Reactions
9	Nov. 5-8	Enthalpy of Neutralization
10	Nov. 12-15	Checkout