

Chemistry 204
Introduction to Chemical Practice



Spring 2006

Dr. Brian Anderson



Dr. Brian Anderson

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Office Hours: Monday 10 – 11:am or by appointment

<http://courses.cm.utexas.edu/banderson/ch204>

Stockroom Wizard: Ethan Greene

Monday Afternoon

Unique Number	Your Lab	Your TA
52275	4.116	Michelle
52280	4.122	Kristen
52285	4.124	Young Nam
52290	4.138	Dipankar
52295	4.140	Xi

Monday Night

Unique Number	Your Lab	Your TA
52370	4.116	Michelle
52372	4.122	Kristen
52375	4.124	Young Nam
52380	4.138	Dipankar
52385	4.140	Alex

Tuesday Morning



Unique Number	Your Lab	Your TA
52175	4.116	Yoonjae
52180	4.122	Ken
52185	4.124	Orf
52190	4.138	Guang
52195	4.140	Ron

Wednesday Night



Unique Number	Your Lab	Your TA
52390	4.116	Yoonjae
52395	4.122	Ken
52400	4.124	Alex
52405	4.138	Guang
52410	4.140	Xi

Required Materials



Lab Manual

Leytner, S. *General Chemistry Lab Manual*; McGraw-Hill Higher Education, Spring 2006 edition

Lab Notebook

Bound (not spiral) with **duplicate numbered pages**.

Combination Lock

Calculator

Recommended — *Atkins and Jones* or another general chemistry text.

Grading

- 70% Lab
- 30% Quizzes

90 – A

80 – B

70 – C

60 – D

70% Lab

- Lab Reports
 - Pre-Lab
 - Report
 - Discussion
 - Post-Lab Questions
 - Unknown Summary Sheet
- Safety/Technique Evaluation
- Notebook Grade

Anatomy of a Lab Report



For EVERY experiment that you perform:

- ❑ **Pre-lab**
due on the day of the experiment
- ❑ **Report (includes Discussion Questions)**
due one week after the experiment is performed
- ❑ **Post-lab**
due one week after the experiment is performed
- ❑ **Unknown summary sheet (if applicable)**
due one week after the experiment is performed

30% Quizzes

- 9 Quizzes total
- 3-4 questions based on
 - Material covered in previous week's lecture
 - Lab manual introduction from previous week's lab
 - Procedures in previous week's lab
 - Post-Lab questions from previous week's lab
- Drop lowest quiz grade
- **NO MAKE-UP QUIZZES**

The Double Whammy



IF YOU ARE ABSENT AND MISS A LAB

- 1) You will get a 0 on that week's quiz, and
- 2) you will still have to take the quiz on the lab you missed when you return next time.

Make-Up Labs



There is ONE make-up week at the end of the semester for doing missed labs.

You can not just get the data from someone, you must actually do the experiment to receive credit.

Before you come to class...



Answer the *five Pre-Lab questions* for the experiment.
Tear them out and turn them in when you get to lab.

Complete a *Preliminary Write-Up* in your lab notebook:

- ☐ Your name, section number, TA's name, and date
- ☐ Experiment number and title
- ☐ Objective (in your own words)
- ☐ Equations for chemical reactions (if applicable)
- ☐ Copy blank data tables from the lab manual so they are ready for data collection

After the ordeal



The rest of the lab write-up consists of

The Report

Data organized in tables

Sample calculation(s)

Graphs (if applicable)

Answers to Discussion Questions

The Post-Lab questions

The Lab Notebook



Use your laboratory notebook for pre-labs, laboratory reports, and post-labs.

Always use ink in your notebook.

Never tear out the original pages from your notebook. If you made a mistake, cross it with a single line. If there is any unused space left on the page, cross it out with a single diagonal mark.

Tear out and submit *copy* pages for grading.

Have your TA sign your data **IN YOUR NOTEBOOK** before you leave

Write neatly and legibly. If we can't read it, we can't grade it.

Always start the **PRE-LAB** assignment for every experiment on a new page.

Always start your laboratory **REPORT** for every experiment on a new page.

Always start the **POST-LAB** assignment for every experiment on a new page.

Turning in pre-labs and lab reports



Must be written on pages torn from your lab notebook. No loose sheets of paper will be accepted.

Pre-labs are due during the first five minutes of lab on the day of the lab.

Lab reports are due during the first five minutes of lab one week after the experiment is performed.

Late reports



Reports that are not turned in during the first five minutes of lab are late and will be penalized 10% per day.

Turn in late reports to your TA, to me, to another 204 TA, or to somebody in the stockroom at any time. They will sign and date them and give them to your TA.

Safety



Your TA will provide a safety orientation in the laboratory.

Wear **SAFETY GOGGLES** at all times while you are in the laboratory.

Dress appropriately. No shorts, no sandals, no bellybuttons, no armpits.

Backpacks go on the wall or in the corner.

No eating, drinking, or chewing gum in the laboratory at any time.

No cell phones. No headphones.

Dispose of all chemical waste in the designated waste containers in the hood.

Broken glass *and broken glass only* goes into the specially marked waste containers.

THE GRADE YARD

Wait till the weekend to start on the report

Wear shorts and sandals to lab
and lose 3 points a week guaranteed!

Work on your lab report during lecture

Don't bother memorizing your section number or
learning your TA's name. You won't need them
after this semester anyway.

Today



Safety orientation and tour of the laboratory

Check-in

Write down your drawer number and combination!

Next Week



**Must have combination lock. Must have lab manual.
Must have lab notebook.**

Read and understand the syllabus.

HOMEWORK FOR NEXT TIME:

Next week we will do Experiment 1: *Are the Densities of Coke and Diet Coke Different?*

- 1) Pre-Lab 1 is due at the start of lab.
- 2) Have a preliminary write-up for Experiment 1 completed in your notebook.

And finally...



No quiz next week