

Chemistry 204
Introduction to Chemical Practice



Spring 2008

Dr. Brian Anderson

Your Humble Instructor



Dr. Brian Anderson

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Office Hours: Monday 9:00 – 10:30 or by appointment

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

Monday Afternoon

Unique Number	Your Lab	Your TA
53780	4.116	Jeffrey Knight
53785	4.122	Lauren Lytwak
53790	4.124	Ki Youl Yoon
53795	4.138	Gabriella Vargas
53800	4.140	Mei Shen

Monday Night




Unique Number	Your Lab	Your TA
53880	4.116	Jeffrey Knight
53885	4.122	Peter Ruymgaart
53890	4.124	Ki Youl Yoon
53895	4.138	Esther Maier
53900	4.140	Kalyan Vasudevan

Tuesday Morning



Unique Number	Your Lab	Your TA
53680	4.116	Monica Villa
53685	4.122	Lauren Lytwak
53690	4.124	Daniel Varnado
53695	4.138	Gabriella Vargas
53700	4.140	Orf

Wednesday Night



Unique Number	Your Lab	Your TA
53905	4.116	Monica Villa
53910	4.122	Peter Ruymgaart
53915	4.124	Daniel Varnado
53920	4.138	Esther Maier
53925	4.140	Mei Shen

Required Materials



Lab Manual

General Chemistry Lab Manual by Svetlana Leytner,
Spring 2008 edition

Lab Notebook

Bound with **duplicate numbered pages**.

Combination Lock

Calculator

Recommended – *Zumdahl* or another general
chemistry text.

Today

- Grading
- Lab Reports
- Absences
- Safety/Check-In

Grading

- 70% Lab
- 30% Quizzes

90.0 + – A

80.0 – 89.9 – B

70.0 – 79.9 – C

60.0 – 69.9 – D

70% Lab



- Lab Write-Ups
 - Pre-Lab Questions
 - Lab Report
 - Discussion Questions
 - Post-Lab Problems
 - Unknown Summary Sheet
- Safety/Technique Evaluation
- End of Semester Notebook Grade

Before you come to class...



Answer the five pre-lab questions for that week's experiment

Do a preliminary lab write-up what's that?

These should be written into your lab notebook. All lab work for this class goes directly into the lab notebook. Always use a ballpoint pen to write in your notebook.

Once you get to lab...



Carry out the experiment. Write all data directly into your lab notebook in the tables you already prepared. Record your observations too!

Have your TA sign any pages where you have collected data before you leave the lab.

After the ordeal



The rest of the lab write-up consists of

The Lab Report

Data organized in tables

Sample calculation(s)

Graphs (if applicable)

Conclusions

Answers to discussion questions

The post-lab problems

Let's see an example. . .

The Lab Notebook



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

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 the *copy* pages for grading.

Be nice to your TA



Write neatly and legibly.

Always start the

PRE-LAB on a new page.

REPORT on a new page.

POST-LAB on a new page.

Number the Discussion Question answers.

Don't forget the insert page!

Turning in pre-labs and lab reports



Must be written on pages torn from your lab notebook. TA's are not allowed to accept loose sheets of paper.

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

Everything else (reports, discussion questions, post-labs, unknown summary sheets) 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 the stockroom at any time. They will sign and date them and give them to your TA.

30% Quizzes



- Each quiz is 3 - 4 questions based on
 - Material covered in the previous week's lecture
 - Lab manual introduction from the previous week's lab
 - Procedures in the previous week's lab
 - Post-Lab problems from previous week's lab
- Like a final exam given in 9 weekly installments
- Drop the lowest score
- Minimum 50% quiz average to get a C in the course
- **NO MAKE-UP QUIZZES.** If you miss one, that's the one you drop.

If you know you will miss a week



Let me know ASAP via e-mail.

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

Make-Up Labs



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

If you let me know of an absence far enough in advance, you might be able to make up the lab during the week and not fall behind. If you wait to tell me, all the spots will be gone.

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.

If you miss a week...



Check the lecture slides online to see if I said anything about what to expect on the quiz.

Read the introduction to the experiment you missed.

Do the post-lab problems for the experiment you missed.

Scholastic Dishonesty



We take precautions to discourage people from cheating, and we make efforts to catch them.

If you are caught cheating, we will submit all the evidence to the Dean's office and you will get an F in the class.

Don't copy someone else's work in order to turn something in on time. The late penalty is small on purpose. If you need help or feel overwhelmed, let me know and I will help.

Today in Lab



Learn your TA's name and your unique number.

Safety orientation and tour of the laboratory.

Check-in – make sure you are in the right lab!

Write down your drawer number and combination!

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 lab.

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 cardboard box waste containers.

Land mines



Don't wait until the weekend to start the report.

Don't do the report or pre-lab during lecture.

Study for the quizzes.

Next Time



**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.