

Chemistry 162 Fall 2009

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NC 414

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Office hours: M 12-2; T 8:45-9:30, 1:30-2; R 8:45-9:30, 1:30-2 *other times available by appointment*

Required Materials:

- CHEM 161 Lab Manual
- Scientific Calculator
- Laboratory Notebook
- Goggles and Lab coat

Expectation of Students

All students MUST have either passed or be currently enrolled in CHEM 161. Students will arrive in class on time each week; if you are late, you risk being locked out of the lab.

Course Goals

Chemistry is the study of matter and its changes. We must consider what is happening on both the macroscopic and molecular levels, and we must be able to discuss these changes symbolically. During this course you will explore these relationships through experiment.

Evaluation of Student Progress

I will evaluate students through quizzes, lab reports, and a lab final. There will be five (5) unannounced quizzes, seven (7) lab reports, and a final exam during the semester; all quizzes and the final exam are cumulative. Spelling and grammar will be graded on all written assignments. If you are concerned about your writing, you should purchase a style manual like Strunk & White, *Elements of Style*.

As part of your lab reports, you will also keep a laboratory notebook. All entries must be in ink and should be written so the experiment could be reproduced without the lab manual.

Tentative Course Schedule

| Week of | Experiment | Special |
|---------|---|-----------|
| 08.31 | No lab | |
| 09.07 | Check-in and Sig Figs | |
| 09.14 | Experiment 1: Mass volume relationships | |
| 09.21 | Experiment 2: Empirical formula | Lab 1 due |
| 09.28 | Experiment 3: Acid-base titrations | Lab 2 due |
| 10.05 | Experiment 3: (cont.) | |
| 10.12 | Experiment 4: Mn content in steel | Lab 3 due |
| 10.19 | Experiment 4: (cont.) | |
| 10.26 | Experiment 5: Molecular models | Lab 4 due |
| 11.02 | Experiment 5: (cont.) | |
| 11.09 | Experiment 6: Synthesis of a Co complex | Lab 5 due |
| 11.16 | Experiment 6: (cont.) | |
| 11.23 | No class | |
| 11.30 | Experiment 7: Gas laws | Lab 6 due |
| 12.07 | Check-out and final exam | Lab 7 due |

Any changes to the above schedule will be announced in class.

Course Policies:

All cell phones MUST be OFF during class.

Attendance Per Department policy, two unexcused absences from lab will result in an "F" for the course.

Tardiness will not be tolerated, and students will receive no credit for the work missed. The door is typically closed and locked at the start of class. Traffic is not an excuse.

Academic Dishonesty: I strictly enforce the University Academic Misconduct Policy. Any form of misconduct will result in an F for the assignment and/ or the course; students will also be referred to the University Judicial Officer for additional sanctions.

Make-Up Assignments and Late Work: I do not give make-up exams or labs. If you have a valid reason for missing a graded assignment, your score will be a weighted average of all previous similar assignments. Valid excuses must be presented to me in advance or as soon as possible after the missed class. E-mail is the best way to contact me (westcottb@ccsu.edu). I DO NOT RETURN STUDENT PHONE CALLS.

Inclement Weather: The University may cancel classes due to inclement weather. Call the University Snow Phone: 832-3333, check the website, or listen to WTIC-AM, 1080 kHz.

Special Needs: If you require course adaptations or accommodations because of a disability, please notify me of your situation ASAP.

Reports: Each report will be graded as four parts, which are equally weighted: Notebook, Introduction, Procedure, Data/ Calculations, Discussion.

Notebook Must be in ink with the date and title of the experiment, and with adequate descriptions included.

Introduction is a summary of the underlying concepts behind the experiment; it should not be a purpose statement or summary of the work to be presented.

Procedure tells what you did and what you observed. This section must be written in the third person, past passive voice.

Data/ Calculations provide relevant data and exhibit sample calculations.

Discussion is where you present your results and discuss their validity. It is not an error statement section.

| Point Distribution | |
|----------------------|-----|
| quizzes (5 @ 5 pts.) | 25 |
| Lab 1 | 10 |
| Lab 2 | 20 |
| Lab 3 | 30 |
| Lab 4 | 40 |
| Lab 5 | 50 |
| Lab 6 | 50 |
| Lab 7 | 25 |
| Final exam | 50 |
| Total | 300 |

| Grading Scale | |
|---------------|----|
| 270 | A |
| 264 | A- |
| 258 | B+ |
| 240 | B |
| 234 | B- |
| 228 | C+ |
| 210 | C |
| 195 | C- |
| 165 | D |
| 0 | F |