Chemistry 108: The Chemistry of Everyday Phenomena

Instructor:
Gretchen Adams
367 I Noyes Lab
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Office Hours: Mondays/Wednesdays, 11:00am – 11:50am, 367 I Noyes Lab and by appt.
(just email me or talk to me in person to setup an alternative time; it’s not a problem at all)

Times:
Lecture: Tuesday 11:00-11:50 am, 163 Noyes Lab
Lab: Thursday 9:00-11:50 am, 457 Noyes Lab

Course Website:
http://www.chem.illinois.edu
• Click on Course Web Sites
• Click on Chemistry 108

Required Materials:
lab apron and lab goggles (these can be purchased at any bookstore or online)
folder or binder to store handouts

Expectations:

Laboratory write-ups
Each Thursday you will participate in a laboratory experiment and will turn in a laboratory write-up the following Thursday before the next lab begins (unless it is a two-week lab experiment).
Your laboratory write-ups must be typed. I will give you a rubric for each lab experiment to assist you in writing the laboratory write-ups and to help you know what is expected.

You may redo one lab write-up for a re-grade. Your score will be the average of the original lab write-up score and the resubmitted lab write-up score. Your resubmitted lab write-up must be turned in within one week of receiving your graded original one. You may not resubmit the Case Investigation lab for a re-grade.

Papers
You will be responsible for 2 papers dealing with a topic in chemistry that is discussed in class. The paper must be typed, should not be longer than 6 pages (double spaced, reasonable margins), and must include at least 3 references (valid web references are fine). The work must be your own. You will have a choice of topics to choose from to write your papers. The papers are due on the following dates: Tuesday, March 1st and Tuesday, April 19th. Each paper is worth 200 points.

Participation
You are expected to attend each lecture and laboratory session, and must play an active role. If you cannot attend a session, you must contact the instructor immediately. Lab write-ups cannot be accepted for any lab you do not attend, and make-up labs are not available.
Grading:

Lab Write-ups (12): 1400 points possible
Papers (2): 400 points possible
Participation: 200 points possible

2000 points possible
2000-1800 points “A” range grades
1799-1600 points “B” range grades
1599-1400 points “C” range grades
1399-1200 points “D” range grades

There are no exams (including no final exam) in this course.

Chemistry 108 Labs

Introductory material

1. Exploring the Nature of Matter (50 points) January 21

Consumer Chemistry

2. How Do Diapers Work? (100 points) January 28
3. How Much Vitamin C is Really in That Juice? (130 points) February 4
4. Food Calories (100 points) February 11
5. Soap-Making: How Does Soap Make You Clean? (100 points) February 18

Forensic Chemistry

6. Testing Water Samples (100 points) February 25
7. What is That White Powder? (100 points) March 3
8. Fingerprinting (100 points) March 10
9. Over-the-Counter Drugs (120 points) March 17

SPRING BREAK

10. Document Analysis: Part I March 31

Document Analysis: Part II (200 points altogether) April 7
11. Is That Drink “Spiked”? (100 points) April 14
12. Casebook Investigation April 21

Casebook Investigation (200 points altogether) April 28
As a student in Chemistry 108, I understand that:

1. Even though I will often perform my lab experiments with at least one other person, I must submit my own lab write-up and write it in my own words. I understand that turning in identical lab write-ups (even portions of it) is considered cheating.

2. Lab write-ups/papers are due within the first 15 minutes of class (according to the scheduled due date).

3. Late lab write-ups are penalized by 10% per day of my earned score (5% late penalty after the turn-in time but on the same day).

4. Error corrections on graded lab write-ups must be submitted by the end of that class period in which the graded lab is returned.

I have read and understand all conditions stated above.

______________________________________  ______________
Signature                                 Date

______________________________________
Printed Name