

**CHE 100L-11
COURSE SYLLABUS**

Chemistry and Society Laboratory
Section 11 M 1:00 PM – 2:40 AM
Natural Science Center Room #464

Fall 2003

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Office Hours:

Mon 3:00 PM – 5:00 PM

Thu 11:00 AM – 1:00 PM

Other hours by appointment.

Course Content and Objectives:

This laboratory course allows first hand experience with the scientific process and the chemical properties of compounds and consumer products.

Required Text:

NKU Laboratory Manual (Chemistry and Society) CHE100L, Fall 2003

Course Requirements:

1. Students are required to attend all scheduled labs. If you miss a class, you will receive no credit, although you are responsible for that day's material and assignments. NO make-ups will be given. If you must miss a lab, you must present legitimate proof, **in person, before the lab**, to be excused.
2. Safety glasses will be worn, correctly, at all times in the lab. I do not waver on this issue. This and other safety procedures (including proper used material disposal), along with upkeep of the lab area comprise a substantial part of your grade. I will withdraw you from the class if I consider your actions/behavior to be unsafe.
3. Prelabs will be completed prior to the lab class. I will initial this at the beginning of the lab session. Incomplete prelabs will result in an automatic 30-point deduction on that day's lab.
4. Unannounced quizzes will be given periodically. If you are late, no extra time will be given.

5. Lab write-ups are due the beginning of the following lab period. A 10% deduction per day will be imposed on your grade for late lab write-ups. Incomplete write-ups (missing pages, graphs, questions, etc.) or write-ups greater than one week late will not be graded.
6. All written work must be legible and grammatically correct. Use only loose-leaf papers that are stapled together before lab.
7. I do not mind if you work together outside of lab to complete the assignments. However, I expect to see individual work turned in, not identical copies of someone else's work.
8. Tests: Test 1: Oct. 13
 Test 2: Dec. 8

Grading:

Your percentage score will be calculated from the number of points earned from the total possible points. Laboratory participation (including results and write-up) consist 60% of your grade, with the two exams making up the remaining 40%. This class does not have a curve.

A note about academic honesty: While I am sure you have all read or have been instructed in regards to the Student Code of Conduct in regards to cheating and probably find the continual discussion tedious, I would like to note that I find cheating to not only be unethical, but insulting to me, other instructors, and your classmates.

Lab Schedule CHE 100L-11

Exp #	Lab	Date	Results Due Date
	Check-in and Safety	8/25	9/1
1	Measurements	9/1	9/8
7	Special Reactions	9/8	9/15
5	Emission Spectra	9/15	9/22
2	Properties of Substances	9/22	9/29
3	Separation and Purification Techniques	9/29	10/6
11	Nuclear Chemistry	10/6	10/13
	Lab Exam #1	10/13	
10	Chemical Analysis of Cations	12/1	12/8
4	Observations and the Scientific Method	10/27	11/3
6	Acids and Bases	11/3	11/10
8	Synthesis of Aspirin and Oil of Wintergreen	11/10	11/17
9	Synthesis of Macromolecules	11/17	11/24
12	Dye	11/24	12/1
	Lab Exam #2 and checkout	12/8	

Prelab Assignments

Exp #	Prelab Readings (Lab Manual)	Other Instructions
1	Using balances pp 6-8 Using a graduated cylinder p 10 Using a thermometer p15 Measurements and significant figures p 17 The laboratory notebook pp 18-19 Appendix A	
2	Transferring solids p 8 Using a Bunsen burner p 14	
3	Suction filtration p 13 Heating a liquid p 14 Waste disposal p 16	T-shirt (optional)
4	Transferring liquids pp 9-10	
5		
6		
7	Filtering p 13	
8		Bacon grease or Crisco, tiny glass beads
9		
10	Flow Chart	
11	Appendix B and C	Computer graph (optional)
12	Review all pertinent techniques	

Any items on this syllabus not understood need to be brought to my attention within the first two weeks of class.