CHE 100L
COURSE SYLLABUS

Chemistry and Society Laboratory **Spring 2004**
Section 12 M 1:00 PM – 2:40 PM
Natural Science Center Room #464

Instructor: Dr. James A. Gawenis **Office: SC 454**

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Office Hours:
Mon/Wed 10:00 AM – 12:30 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, Spring 2004

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: Mar. 1
   Test 2: Apr. 26

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

Exp #	Lab	Week	Results Due Week
	Check-in and Safety	1/12	1/19
1	Measurements	1/19	1/26
5	Emission Spectra	1/26	2/2
2	Properties of Substances	2/2	2/9
3	Separation and Purification Techniques	2/9	2/16
7	Special Reactions	2/16	2/23
11	Nuclear Chemistry	2/23	3/1
	Lab Exam #1	3/1	
10	Chemical Analysis of Cations	3/15	3/22
4	Observations and the Scientific Method	3/22	3/29
6	Acids ad Bases	3/29	4/5
8	Synthesis of Aspirin and Oil of Wintergreen	4/5	4/12
9	Synthesis of Macromolecules	4/12	4/19
12	Dye	4/19	4/26
	Lab Exam #2 and checkout	4/26	

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.