Chemistry 1506L
Chemistry for the Allied Health Sciences 2
Fall Semester 2002

Required Text: *Laboratory Experiments for General, Organic and Biochemistry* 4th edition by Frederick Bettelheim and Joseph Landesberg, 2001, Harcourt College Publishers.

1506L serves several purposes including:

1. Demonstrating and reinforcing important concepts taught in lecture.

2. Providing laboratory experience illustrating the proper handling of chemicals, the use of some simple apparatus, and the analysis of experimental results.

3. Providing the student the opportunity to ask questions which may come up in either lecture or lab.

Lab Reports:

1. Experiments will be conducted in groups of two. Each person will write and hand in his/her own report. Be sure to write the name of your partner on the report sheet.

2. Pre-laboratory reports accompany most experiments. A pre-laboratory report **must** be finished before beginning the laboratory.

3. Due dates for lab reports are given in the syllabus. Each report must have the date the experiment was performed and the due date listed.

4. Late reports will result in the loss of one point per week day they are overdue.

5. Everyone is expected to take part in each experiment. **Unexcused absences will result in a zero for experiments done that period**. It is your responsibility to see the instructor **as soon as possible** if you know you will be absent so that other arrangements can be made.

Make-up Policy

Students are expected to participate in each and every lab. If you have a legitimate reason for missing your assigned lab period (as judged by the instructor) this is the make-up policy you must follow.

1. You must contact the instructor within 24 hours of missing your lab. Failure to do so will result in zeroes for the labs you missed.

2. Your first option is to participate in another lab. You must ask permission from the instructor to enter another lab.

3. The second option is to write a 2-3 page report for **each** lab you missed. These reports should include the principles presented in each lab, sample data and calculations. Finally you should summarize the importance of the results. These reports are due within one week of missing your regularly scheduled lab. Since you didn't actually conduct the experiment you will receive an average or less than average score.

Tentative Schedule

Date	Expt. #	Topic	Reports Due
8/27, 29		Check-in, Safety Review	28
9/3, 5	28	Identification of hydrocarbons	28
9/10, 12	26	Structure in organic compounds	26
9/17, 19	29	Column and paper chromatography: separation of plant pigments (we will only do paper chromatography).	29
9/24, 26	30	Identification of alcohols and phenols	30
10/1, 3	31	Identification of aldehydes and ketones	31
10/8, 10	35	Preparation of acetylsalicylic acid (aspirin)	35
10/15, 17	32	Properties of carboxylic acids and esters	32
10/22, 24	33	Demo, Properties of amines and amides	33
10/29, 31	38	Carbohydrates	38
11/5, 7	39	Preparation and properties of a soap	39
11/12, 14	45	Isolation and identification of casein	45
11/19, 21	X8*	Enzyme action	X8
11/26, 28		*Thanksgiving Holiday, No labs*	
12/3, 5		Check-out	X8

*X8 is a handout that you will receive in the lab.

Grading: Your lab grade will consist of 12 lab reports. To achieve consistency between the various lab sections and the different instructors your grade will be scaled based on a class average of 85%. The lab grade will be folded into the overall grade for the course.

Helpful Hints

We realize that many of you have not had much lab experience so here are a few helpful hints you may wish to follow to succeed in this course.

1. Read the experiment before coming to class. This is the most important hint. You may not understand all the details of the experiment, but at least you will have some idea of what the experiment is about when you come to class.

2. Listen to the instructor. The instructor begins class with a discussion of the principles of the experiments you will be performing that day. He or she will also give you some hints on how to conduct the experiment. Listen closely to what the instructor tells you. It will be worth your while to take notes as well.

3. Bring your textbook to lab. Use it as a reference when you have questions about terms or principles discussed in the experiment.

4. Be patient. Your lab period is nearly three hours long. No prizes are given for being the first one out the door. Take your time and think about what you are doing.