

Physiological Chemistry Lab
CHE 115-015
Fall 2004

Thursday 10:25-12:05, SC462

Instructor: Gwen Fields Office: SC 442 Phone: 572-6681 E-Mail: fieldsg@nku.edu

Office Hours: MWF 10-11:30 a.m.

Prereq.: Highschool chemistry or CHE 110

Coreq: CHE 115 lecture

****If you withdraw at any time from the CHE115 lecture, you MUST also withdraw yourself from the lab*****

Required text: F.A. Bettelheim and J.M. Landesberg, Laboratory Experiments Physiological Chemistry 115, Thomson Learning 2003

Course Objective: To accurately perform basic laboratory techniques introduced throughout the semester, and to accurately collect, record and interpret data produced in the given experiments.

<u>Date</u>	<u>Experiment</u>	<u>Pre-lab</u>	<u>Procedure</u>
8/26	Safety, Check-in, Intro. To Lab		
9/2	Exp. 8, Classes of Chem. Rxns.	1-10	TBA
9/9	Exp. 17, Solubility and Solutions	1-4	All
9/16	Nuclear Chemistry	n/a	Handout
9/23	Exp.22, pH and Buffer Solutions	1-3	All
9/30	Exp.26, Structure of Organic Compounds	1-4	1a-c, 2, 3, 4a, b, d-f, 5a-c
10/7	Molecular Models	n/a	Handout
10/14	Midterm Exam		
10/21	Fall Break - NO LAB		
10/2	Exp. 35, Preparation of Aspirin	1-4	Handout
11/4	Exp. 39, Preparation of Soap	1-4	Handout
11/11	Exp. 45, Isolation of Casein	1-4	Part A, B 3a-c
11/18	Exp. 1, Gas Burner; Combustion	1-3	1-8
11/25	Thanksgiving Break - NO LAB		
12/2	Final Exam - LAST LAB		

* Students must come prepared for the experiment that is assigned for that lab period. This means thoroughly reading and understanding the procedure that is to be performed and having done the assigned pre-lab questions PRIOR to stepping foot into the laboratory. No student will be permitted to do their lab experiment if the pre-lab questions are not COMPLETE. The questions must be initialed by the instructor prior to entering the lab. It is also mandatory that each wear safety goggles for each experiment. If you do not have goggles, you may not enter the lab. *

Grading Scale:

Each Experiment is worth 50 pts. $50 \times 10 = 500$ pts.
Each Exam is Worth 100 pts. $100 \times 2 = 200$ pts.
Total points = 700 pts.

A	90-100%	627-700 pts.
B	80-89%	557-626 pts.
C	70-79%	487-556 pts.
D	60-69%	417-486 pts.
F	$\leq 59\%$	≤ 416 pts.

Grading Reports: Reports will be graded on the following sections

Pre-lab questions, data collected (with accurate sig. figs. and units eg. g, L, kg etc.), calculations done correctly and with the proper sig. figs., and post-lab questions.

The value of each section will vary according to the experiment done. Pre-lab questions are to be turned in at the beginning of the experiment to which they apply. The remainder of the sections will be due as you **enter** the lab on the lab period directly following the day that the experiment was done, typically one week later. Reports turned in after the start of lab on the due date will be considered late and will lose points. The penalty for late reports is 2 points per school day.

Attendance Policy: No lab grade is dropped, so a student must complete every experiment scheduled for the semester, or take a grade of zero for any experiment not completed. If a student must miss a lab period for an unavoidable emergency, one make-up lab for the semester will be allowed with the following criteria: you must notify the instructor ASAP of your absence. This means as far in advance of missing the lab as possible if you know in advance that you cannot attend the lab. If an emergency arises on the day of the lab, you must contact the instructor no later than 4:00 p.m. on the day of the missed lab. I insist that you talk directly to me on the phone to make arrangements for the make-up lab. I will not e-mail back and forth 15 times to set up a make-up. If you notify me by e-mail of your absence, be sure to include a phone number at which I can call you to make arrangements. Likewise, If you phone my office and I'm not there, leave a phone number where I can reach you. I WILL return your call by Thursday evening. If you have left me an e-mail or a phone message and have not heard back from me by 5:30 p.m., assume that I did not receive the message and try again. If you do not contact me within 24 hours of the start of the lab you missed, you will not be granted a make-up lab.

This syllabus is subject to change at the discretion of the instructor.

In accordance with the Student Honor Code, no cheating will be tolerated in this course. A student found guilty of cheating will receive a grade of F for the course.