

Syllabus
Physiological Chemistry Lab
CHE-115L-011-012-013
SC 462
Fall 2006

Instructor: Dr. PJ Ball

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Office Hours: Office Hours: W: 11:00-1:30; TR: 11-12, 3:30-4:30; others by appointment;
others by appointment and open door policy

Required Text: F.A. Bettelheim and J. Landensberg, Chemistry 115 Lab Manual,
Brooks/Cole, 2006.

Co-requisite:

CHE 115- Please be aware that if you drop CHE 115, you must also drop CHE-115-L

Course Description:

This is a laboratory course to accompany CHE 115 Physiological Chemistry. It is designed to highlight concepts presented in CHE 115 and to help the student become familiar with laboratory techniques and keep accurate records of observations.

Objectives:

Upon completion of this course, the student will demonstrate the ability to:

- Correctly perform selected laboratory techniques
- Accurately record observations made in the laboratory
- Explain conclusions based on data collected

Attendance:

Attendance at ALL lab sessions is required. No lab will be excused. Make-up work will be arranged for legitimate medical problems or other extraordinary circumstances, at the discretion of the instructor. The student is responsible for notifying the instructor within 24 hrs of such absences. Failure to notify instructor of absences within 24 hrs. will result in a 0 for the missed lab.

Course Requirements:

The student is expected to come to each lab session prepared to perform the assigned experiment (see attached schedule). This requires that you READ the introductory information, complete the pre-lab questions as noted on the schedule, and STUDY the procedures. It is helpful to write an abbreviated version of the procedure in advance. Assigned pre-lab questions will be collected prior to the start of each lab experiment. Completed lab reports (report sheets and post-lab questions) are to be submitted one week following completion of the lab exercise. Labs turned in after 7 days will not be accepted. For every day late, there will be a 10% grade deduction.

Exams: There will be two exams given this semester. The exams will each count for 10% of your grade. They are intended to assess your understanding of the purpose and procedure of the experiments as well as your knowledge of the applied concepts. You must bring a calculator to the exams. Cell phones may not be used.

Grading:

Lab Reports = 80%

Exams = 20 %

A = 93-100

B = 84-92

C = 70-83

D = 60-69

F = 0-59

Policies of the Department of Chemistry at Northern Kentucky University:

- All items on the syllabus are subject to change at the discretion of the instructor
- Students are responsible for reading and understanding the syllabus. Any items that are not understood need to be brought to the attention of the instructor within the first two weeks of the semester
- The work that you do in this course is subject to the Student Honor Code. The Honor Code is a commitment to the highest degree of ethical integrity in academic conduct, a commitment that, individually and collectively, the students of Northern Kentucky University will not lie, cheat, or plagiarize to gain an academic advantage over fellow students or avoid academic requirements.
- Cheating will not be tolerated. Faculty members have the right to determine actions to be taken when a student is caught cheating.
- Faculty members have the right to dismiss or have removed disruptive students from their classroom.

Safety:

Students are expected to wear safety goggles at all times. Failure to wear safety goggles may result in a grade penalty. Sandals and shorts are **NOT** permitted in the laboratory. If you come to lab wearing inappropriate attire you will **NOT** be allowed to complete the lab that day. Students are to report all spills/accidents to the instructor immediately.

Course Schedule

<u>Date</u>	<u>Lab</u>	<u>Pre-lab</u>	<u>Proc/Report</u>	<u>Post-Lab</u>
8/22,8/24	Safety, Check-In			
8/29, 8/31	Exp 2 Measurements	All	All	1-4
9/5,9/7	Nuclear Chemistry	Handout	Handout	Handout
9/12,9/14	Exp 8 Chem. Rxns	1-10	Single/Double Replacement Rxns	None
9/19,9/21	Exp 17 Solub & Solns	All	All	All
9/26, 9/28	Exp 20 Rxn. Rates	1,2,4	All	All
10/3,10/5	Exp 22 pH & Buffers	1,3	All	3
10/10,10/12	TEST			
10/19	Exp 3 Density	All	All (except Density by Flotation)	1,2,4,6
10/24,10/26	Exp 26 Structure of Organic Compounds	1-4	1a-c, 2, 3,4a,b,d-f 5a-c,7	1-3
10/31,11/2	Exp 33 Amines/Amides	All	All	All
11/7,11/9	Exp 35 Aspirin	1-3	Handout	All
11/14,11/16	Exp 39 Soap	All	Handout	None
11/21	Exp 3 Density	All	All (except Density by Flotation)	1,2,4,6
11/28,11/30	Exp 45 Casein	All	Part A, B-1d, 3a,c	1,5,6
12/5,12/7	TEST, Checkout			