

Syllabus
Physiological Chemistry Lab
CHE-115L-011-014-015
SC 462
Spring 2006

Instructor: Dr. PJ Ball

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Office Hours: M: 10:30-1:30; T: 11-12; W: 10-12; R: 2-3; others by appointment and open door policy

Required Text: F.A. Bettelheim and J. Landensberg, Laboratory Experiments for Physiological Chemistry, Brooks/Cole, 2002.

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 underscore 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.

Grading:

Lab Reports = 80%

Exams = 20 %

A = 92-100

B = 84-92

C = 70-84

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.

CHE 115L Schedule SPRING 2006

MONTH (WEEK NO.)	MON	TUES	WED	THUR	FRI
JAN (1)	9 Classes Begin	10 Safety, Check In, Intro	11	12 Safety, Check In, Intro	13
(2)	16 MLK Day No Classes	17 Exp 2 Measurements	18	19 Exp 2 Measurements	20
(3)	23	24 Exp 3 Density	25	26 Exp 3 Density	27
(4)	30 Last Day to "X"	31 Exp 8 Chem. Rxns	1	2 Exp 8 Chem. Rxns	3
(5)	6	7 Exp 17 Solub. & Solns	8	9 Exp 17 Solub. & Solns	10
(6)	13	14 Exp 22 pH & buffers	15	16 Exp 22 pH & buffers	17
(7)	20	21 Nuclear Chemistry	22	23 Nuclear Chemistry	24
(8)	27	28 Test 1	1	2 Test 1	3
(9)	6 Spring Break No Classes	7 Spring Break No Classes	8 Spring Break No Classes	9 Spring Break No Classes	10 Spring Break No Classes
(10)	13	14 Exp 26 Struct. Org.	15	16 Exp 26 Struct. Org.	17
(11)	20	21 Exp 33 Amides/Amines	22	23 Exp 33 Amides/Amines	24
(12)	27 Last Day to "W"	28 Exp 35 Aspirin	29	30 Exp 35 Aspirin	31
(13)	3	4 Exp 39 Prep. Of Soap	5	6 Exp 39 Prep. Of Soap	7
(14)	10	11 Exp 20 Reaction Rates	12	13 Exp 20 Reaction Rates	14
(15)	17	18 Exp 45 Casein	19	20 Exp 45 Casein	21
(16)	24	25 Test 2	26	27 Test 2	28 Last Day
	1	2	3	4	5

<u>Date</u>	<u>Lab</u>	<u>Pre-lab</u>	<u>Proc/Report</u>	<u>Post-Lab</u>
1/10,1/12	Safety, Check-In			
1/17,1/19	Exp 2 Measurements	All	All	1-4
1/24,1/26	Exp 3 Density	All	All (except Density by Flotation)	1,2,4,6
1/31,2/2	Exp 8 Chem. Rxns	1-10	Single/Double Replacement Rxns	None
2/7,2/9	Exp 17 Solub & Solns	All	All	All
2/14,2/16	Exp 22 pH & Buffers	1,3	All	3
2/21,2/23	Nuclear Chemistry	Handout	Handout	Handout
2/28,3/2	TEST			
3/7,3/9	SPRING BREAK			
3/14,3/16	Exp 26 Structure of Organic Compounds	1-4	1a-c, 2, 3,4a,b,d-f 5a-c,7	1-3
3/21,3/23	Exp 33 Amines/Amides	All	All	All
3/28,3/30	Exp 35 Aspirin	1-3	Handout	All
4/4,4/6	Exp 39 Soap	All	Handout	None
4/11,4/13	Exp 20 Rxn. Rates	1,2,4	All	All
4/18,4/20	Exp 45 Casein	All	Part A, B-3a,c	1,5,6
4/25,4/27	TEST, Checkout			