

NORTHERN KENTUCKY UNIVERSITY
Department of Chemistry
Fall 2003

CHE 115 - L
Physiological Chemistry Lab
1 Credit Hour

SC 462
Sec 011 T 1:40 - 3:20
Sec 012 T 5:50 - 7:30
Sec 013 R 1:40 - 3:20
Sec 014 R 5:50 - 7:30

Instructor: Jean Gade, MS, RN
Office: SC 349
Phone: 572-6960
email: gadej@nku.edu

Office Hours: TR 10:00 - Noon
3:30 - 4:15
Others by Appointment

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 made.

Objectives:

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

1. Correctly perform selected laboratory techniques.
2. Accurately record observations made in the laboratory.
3. Evaluate the reliability of data.
4. Explain conclusions based on data collected.

Required Text:

F.A. Bettelheim and J. Landesberg, Laboratory Experiments for Physiological Chemistry, Harcourt College Publishers, 2002.

Corequisite: CHE 115

Course Policies:

Attendance at all lab sessions is required. No lab will be dropped or 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 48 hr. of such absences.

Course Requirements:

The student is expected to come to each lab session prepared to perform the assigned experiment - this includes reading introductory information, doing Prelabs as noted, and studying Procedures (preparing an abbreviated version of the procedure is highly recommended). Completed lab reports (Prelabs and Report Sheets) are to be submitted one week following completion of the lab exercise.

Grading:

Your grade will be based on your scores for lab reports (pre-lab, report sheet & post-lab questions, as applicable) and two exams (80% lab reports, 20% exams), according to the following percentages:

90 - 100	A	70 - 79	C	0 - 59	F
80 - 89	B	60 - 69	D		

Schedule:

<u>Date</u>	<u>Lab Exercise</u>	<u>Pre-lab</u>	<u>Procedure/Report</u>
8/26 8/28	Safety; check-in; Intro to Lab	1-3	1-4
9/2 9/4	Exp. 8 Classes of Chemical Reactions	1-10	TBA
9/9 9/11	Exp. 17 Solubility and Solutions	1-4	All
9/16 9/18	Nuclear Chemistry	n/a	Handout
9/23 9/25	Exp. 22 pH and Buffer Solutions	1-3	All
9/30 10/2	Exp. 26 Structure of Organic Compounds	1-4	1a-c, 2, 3, 4a,b,d-f, 5a-c
10/7 10/9	Molecular Models	n/a	Handout
10/14 10/16	Exam 1 "		
10/21 10/23	Fall Break - No Lab " "		
10/28 10/30	Exp. 35 Preparation of Aspirin	1-4	Handout
11/4 11/6	Exp. 39 Preparation of Soap	1-4	Handout
11/11 11/13	Exp. 45 Isolation and Identification of Casein	1-4	Part A, B-3a & c
11/18 11/20	Exp. 1 Gas Burner; Combustion	1-3	1-8
11/25 11/27	No Lab (Thanksgiving) "		
12/2 12/4	Exam 2 "		
12/9 12/11	Check-out "		

Note: Schedule subject to change at the discretion of the instructor.