

Syllabus: Physiological Chemistry Lab CHE-115L-011,-012

Spring 2009
SC 464

Instructor: Dr. PJ Ball

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Office Hours: M: 11-1; T: 12:15-1:15; R: 2-4; open door policy and others by appointment

Required Text: *Physiological Chemistry, CHE 115, Laboratory Manual*, Wiley 2009.

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.

Student Learning Outcomes:

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

- Carry out experimental protocols using modern instrumentation and methods.
- Compile, critically evaluate, and interpret scientific information and data.
- Effectively communicate scientific information through written means.

Attendance:

Attendance at ALL lab sessions is required. You must attend the lab section in which you are enrolled. 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. If the student has a legitimate absence, the student will make up the lab in another CHE 115 section. The student is responsible for notifying the instructor within 24 hrs of such absences. Failure to notify the instructor of absence within 24 hrs. will result in a 0 for the missed lab.

Lab Report Expectations:

Before coming to lab: 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 be familiar with the procedures. Assigned pre-lab questions will be collected prior to the start of each lab experiment

While in lab: The student is expected to complete the report sheet found in the lab manual for the designated experiment or handout corresponding to the assigned lab procedures.

After lab: The student is expected to complete the assigned post-laboratory questions. Completed lab reports (report sheets and post-lab questions) are to be submitted one week following completion of the lab exercise. For every day late, there will be a 3 pt. grade deduction.

Grading:

Lab Reports = 75% Exams = 25 %

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

NOTE: Your grade is a weighted average, you CANNOT figure out your grade by simply taking the number of points earned divided by the total points as displayed on Blackboard

Your average= (lab report average * 0.75) + (test average * 0.25)

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 2009

<u>Date</u>	<u>Lab</u>	<u>Pre-lab</u>	<u>Report Sheet</u>	<u>Related Questions</u>
1/13	Safety, Check-In			
1/20	Exp 2: Measurement pg. 7	1,2	I, II, III, IV, VA,VC	1-4
1/27	Nuclear Chemistry pg. 25	pg. 30	all (pg.31-33)	N/A
2/3	Exp 6: Ions of Nutrition pg.35	3-9	II, III, IV	all
2/10	Exp 10: Chemical Rxns handout	1-9	I, II, IIIa	none
2/17	Hydrocarbons pg. 49	none	pg 49-58	N/A
2/24	Case Study (handout given in class)			
3/3	TEST			
3/10	No Class: Spring Break			
3/17	Exp 11: Electrolytes pg. 79	1-6	I, II, III	1,2,3,5,8
3/24	Exp 13: Antacid pg. 97	all	all	none
3/31	Synthesis of Aspirin Exp 15 Analysis of an Aspirin pg. 61		I,II, III	
4/7	Exp 14 pg 105 Exp 16 pg121	1-6 next week	I,III,IV I, III	none none
4/14	Exp 16 continued	1-4	IV,V,VI	none
4/21	Exp 18 pg.137	all	all	1-3
4/28	TEST, Checkout			

**** Schedule is subject to change so please be attentive to any announcements that are made!****

Physiological Chemistry Lab Contract

The following statements are guidelines that you must understand before beginning Physiological Chemistry Lab (CHE 115L). Please read below and sign saying you understand and agree to follow these rules.

- I will come to lab on time and prepared for class. This includes having the proper lab attire, pre-lab questions completed, and my lab notebook. I understand that I have been given one free "unprepared pass" to use in case of an emergency and that after that coming to class unprepared will result in a deduction of points from my lab score.
- I understand that the unprepared pass DOES NOT excuse me from attending a lab, it only allows me to hand in one assignment late. If you miss a lab, you must make up the lab in another CHE 115 section.
- I understand that the pre-lab questions are due at the beginning of class. It is not acceptable to ask the lab instructor a question about the pre-lab questions right before class starts. Pre-lab questions must be asked in advance.
- I understand that late pre-lab questions will not be accepted. Failure to turn the pre-lab questions in on time will result in an approximate 10% grade deduction for that lab report.
- I understand that report sheets and post-lab questions (when applicable) are due at the beginning of class one week after the experiment is completed. There is a 3 point per day late penalty.
- I understand that for my own safety, I CANNOT wear shorts or sandals to lab.
- I understand that I must attend the lab section in which I am enrolled. Except in extreme circumstances, I am not allowed to switch more than one time during the semester. If I do need to attend a lab section different than the one in which I am enrolled, I need to notify both lab instructors. I am also aware that my pre-lab and lab report still must be turned in on time.
- While in lab I must follow the safety rules (including goggles kept over eyes, not on forehead) and failure to do so will result in a deduction of points from my grade.
- I may not talk on my cell phone or text during lab class.

Signature _____