

**Syllabus**  
**Physiological Chemistry**  
**CHE-115-002 SC308 TR 4:30-5:45**  
**Spring 2009**

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 Materials:**

*Text:* General, Organic, and Biological Chemistry, An integrated Approach. Raymond, Wiley, 2006.

*Calculator:* Each student will need a calculator that can perform simple mathematical functions. Cell phones may not be used for calculators.

*Blackboard:* Each student must be able to access the Blackboard site for this course.

Announcements, quizzes, handouts, study guides, answer keys, and course notes will be posted on blackboard.

**Course Description:**

This course is intended for non-science majors, particularly those desiring careers in nursing and allied health-care fields. This course fulfills the general education science requirement. The basic principles of general, organic, and biological chemistry are covered with an emphasis on chemical reactions and concepts related to physiological processes and other phenomena of everyday interest.

**Student Learning Outcomes:**

Students who successfully complete this course are expected to:

- Explain the major concepts and experimental findings in the chemical sciences as it relates to physiological chemistry.
- Discuss the basic concepts of general chemistry, organic chemistry, and biological chemistry
- Discuss the relationship of chemistry to a variety of topics such as health, disease, nutrition and the environment

**Co-requisite:**

CHE 115L- If you drop the lecture you must also drop the lab and vice versa.

**Prerequisite:**

High School Chemistry or CHE 102 or equivalent

**Tests:**

There will be four tests during the semester and a final exam. The dates are listed on the attached schedule, but note that test dates are subject to change, so please be attentive to any announcements. There will be **NO** make up tests. If you miss one test, the final exam will count for that additional percentage of your grade. If you miss more than one test, you will receive a zero for each test missed beyond the first test. If a student takes all four exams, at the end of the semester I will replace the lowest exam grade with the final exam grade. I will do this only if it is beneficial to your grade (i.e. your final exam score is higher than your lowest test score).

### **Quizzes/ Assignments:**

All quizzes and assignments will be announced and provided via Blackboard. Students are expected and bound by the University Honor Code to take the quizzes/assignments on their own.

**Study Guides/Suggested Problems:** Study guides for each chapter are provided on Blackboard. Chemistry is a problem based course. In order to fully grasp the material you must work problems. The best way to do well on the exams is to complete the study guide exercises and end-of-chapter problems. I am always more than happy to answer any questions you may have about these problems/exercises.

### **Supplemental Instruction (SI):**

Supplemental Instruction is offered for this course. SI is an extra service that is provided to help you succeed in this course. SI sessions are held three times a week and are led by a student who has previously taken this same course and done very well. The SI leader will provide worksheets and activities to allow you to practice and apply the concepts studied in lecture. It is not required that you attend these sessions. However I strongly encourage you to attend one session a week. In the past students who have attended SI sessions have done considerably better than those who do not attend. The SI session times and locations will be posted on Blackboard.

### **Grading:**

Tests = 65%

Quizzes/Assignments = 15%

Final Exam = 20 % (The final exam will be comprehensive)

A = 90-100    B = 80-89    C = 70-79    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= (test average \* 0.65) + (q/a average \* 0.15) + (final exam \*0.20)**

### **Other Important Information and 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.
- Please see blackboard for information concerning disability services and the learning assistance program

**Note:** Please turn off cellular phones during class. If you expect an emergency call please notify me before class begins. Use of a cellular phone during a test is considered cheating.

## Tentative Course Schedule

<u>Date</u>	<u>Lecture</u>	<u>Suggested Problems</u>
1/13	Introduction/Chapter 1	10,11,13,15,17,21,22
1/15	Chapter 1	23,25,31,33,36,41,42,43,45,46,50
1/20	Chapter 2	1,2,3,9,11,15,16,18,19,24
1/22	Chapter 2	25,27,29,31,39,40,41,43a,44,46
1/27	Chapter 3	1,5,9,10,14,18,22,23,24,25,26
1/29	Chapter 3	31,32,36,39,40,46,48,53
2/2	<i>Last Day to "X"</i>	
2/3	Chapter 4	
2/5	<b>TEST 1</b>	
2/10	Chapter 4	1,7,8,15,16,17,19,21
2/12	Chapter 4	23,25,27,29,30
2/17	Chapter 4	31,33,34,35,37
2/19	Chapter 4	47,53,54,63,64
2/24	Chapter 5	
2/26	<b>TEST 2</b>	
3/3	Chapter 5	16,19,25,27,29,31
3/5	Chapter 5	33,35,37,42,44,47,53,66,73,74,79
3/10-12	<i>Spring Break: No Class</i>	
3/17	Chapter 6	1,5,7,10,12,15
3/19	Chapter 6	25,27,29,31
3/24	Chapter 6	33,35,37,51
3/26	Chapter 7	1,5,7,11,14,16,19,20,21,23,26,27
3/30	<i>Last Day to "W"</i>	
3/31	Chapter 7	30,34,36,39,43,66,68
4/2	<b>TEST 3</b>	
4/7	Chapter 9	
4/9	Chapter 9	1,4,5,7,9,11,13,15,17
4/14	Chapter 9	19,20,41,50,60
4/16	Chapter 10	1,4,5,12,14,17,20,25,29
4/21	Chapter 10	33,40,44,46,48,50,53,54, 55,56,60,63
4/23	<b>TEST 4</b>	
4/28	Chapter 11	1,5,8,13,14,16
4/30	REVIEW	

FINAL EXAM: Thursday May 7 4:30-6:30 pm. SC 308

\*\*\*\*\*This schedule is subject to change at the discretion of the instructor\*\*\*\*\*