

Syllabus
Physiological Chemistry
CHE-115-001 SC308 TR 12:15-1:30
Spring 2009

Instructor: Dr. Brad Sieve

Office: SC 452

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Office Hours: M 11-12, W 1-2, R 11-12; 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 non-programmable 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. Also a basic understanding of algebra and mathematics will be needed to complete the course successfully. If you feel that you do not have these abilities it may be better to first complete CHE 102 before attempting this course.

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 exams. If you miss one test it can be excused with proper documentation. In this case only, will the final exam count for that the missed exam. If you miss more than one test, you will receive a zero for each test missed beyond the first test. If you know you will be missing an test it may be possible to take the exam by arrangement with the professor prior to the class exam time. This can not be done however more then 24 hours before the class exam.

Quizzes/ Homeworks:

Short in-class quizzes will be given throughout the semester. These quizzes may be announced or unannounced to address student's preparedness for lecture and the understanding of the course material. Make up quizzes will not be given though the lowest quiz score for the term will be dropped.

Homeworks: Along with suggested problems homework problems will be handed out during the course. These problems are designed to help ensure your understanding of the material presented in the lecture and prepare you from the exams. The questions will be asked and graded through the blackboard system so you will be required to have access to this system. These problems will be due at the beginning of class on the due date or shortly there after generally corresponding to a few days after the ending of chapter in the text. If you miss a lecture where homework is assigned it is your responsibility to find out the homework assignment from other students and the due date. The reason for the homework given online is two fold, first this allows multiple attempts at the homework and feedback to the questions and second it stops students from simply copying from each other before class on the due date. Expect a short homework set for each chapter covered.

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.

Grading:

Tests = 60%

Quizzes = 10%

Assignments = 10%

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 * 0.60) + (q average * 0.10) + (a average * 0.10) + (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/quiz is considered cheating.

Students with disabilities who require accommodations (academic adjustments, auxiliary aids or services) for this course must register with the Disability Services Office. Please contact the Disability Service Office immediately in the University Center, Suite 320 or call 859-572-6373 for more information. Verification of your disability is required in the Disability Services Office for you to receive reasonable academic accommodations. Visit the Disability Services website at www.nku.edu/~disability/.

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<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	TEST 1	
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	TEST 2	
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	TEST 3	
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	TEST 4	
4/28	Chapter 11	1,5,8,13,14,16
4/30	REVIEW	

FINAL EXAM: Tuesday May 5 1-3 pm. SC 308

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