



**CHE 310 – N01 : Organic Chemistry I  
Spring 2009**

**Instructor :** Prof. K.C. Russell

**Office :** Natural Science Center 350

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**Course web page:** [www.nku.edu/~russellk/courses/chm310/310.htm](http://www.nku.edu/~russellk/courses/chm310/310.htm)

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- What you need:**
- Organic Chemistry, 5<sup>th</sup> ed. Seyhan Ege (ISBN 0-618-31809-7)
  - A clicker for taking quizzes
  - An OWL code (<http://xr1.us/buy310owlcode>)
- Prerequisite:** A grade of “C” or better in CHE 121
- Course Times:** Tuesday & Thursday 8:00 - 9:15 AM; SC 305
- Discussions:** Thursday 7:00 - 7:50 AM; SC 305
- Office Hours:** M 9:00 – 10:00 AM; T 1:00 – 2:00 PM; W 11:00 AM – 12:00 PM;  
Drop by anytime, I have an open door policy. Email or call.  
If you want to be sure to find me outside of office hours, please make an appointment.
- Supplemental Instruction:** SI Leader : Thomas Negassi  
SI Times: Monday, 11:00 – 11:50 AM, LA 404  
Tuesday and Thursday, 1:40 – 2:30 PM, SC 305
- Student Learning Outcomes:** At the end of this lecture course the student should be able to...
- 1) Explain the major concepts and experimental findings as they apply to organic chemistry through written means.
  - 2) Analyze compounds based on their functional groups in order to predict chemical reactivity.
  - 3) Analyze, interpret and predict spectroscopic properties for simple organic compounds.
  - 4) Apply the principles of electron motion to provide mechanisms for a selection of organic reactions.
  - 5) Evaluate the relationships between chemistry and mathematics, physics, biology, and other disciplines and between chemistry and society.
  - 6) Apply the knowledge and skills mastered in items 1- 4 in future courses and careers. (e.g. chemistry, biochemistry, biology, pharmacology, medical school, etc.)

**Hour Exams:** All exams will consist of short answer questions and will take place from 3:00 – 5:00 PM on the following dates at the following locations:

|               |         |                                    |
|---------------|---------|------------------------------------|
| Hour exam I   | CH 1-4  | Friday, February 13, 2009 (SC 207) |
| Hour exam II  | CH 5-7  | Friday, March 27, 2009 (SC 207)    |
| Hour exam III | CH 8-11 | Friday, April 24, 2009 (SC 201)    |

**Final Exam:** Thursday, May 7, 2009. 8:00 – 10:00 AM, SC 305  
The final will be cumulative for the semester.

**Grading Policy:** Each hour exam is worth 100 points and the final is worth 200 points. Graded homework assignments will be worth 85 points and quizzes 15 points (see Homework & Quizzes). If you are within 1% of the next higher grade and have 100 % or better on your homework you will receive the next higher grade.

Your final letter grade will be assigned based on the following curve:

A ( $\geq 86.00\%$ )  
B (73.00 – 85.99 %)  
C (60.00 – 72.99 %)  
D (50.00 – 59.99 %)  
F ( $\leq 49.99\%$ )

However, under no circumstances can the homework be used to increase your final course grade beyond your best exam letter grade.

For example: E1 = 52, E2 = 56, E3= 54 and Final = 110. Your best letter grade on an exam is a 'D'. You cannot receive a letter grade of 'C' for the course even if your homework score = 100 and your final total is 61 %.

**Missed Exams:** **No make-up exams will be given.** If you are ill the day of one of the three semester hour exams, you must notify me in advance. The score for the missed exam will be an average of all remaining exams (including the final adjusted to 100 points). You may only miss one exam. You will receive a score of zero if no notification is given. You will be dropped from the class if you miss two exams.

**Old Exams** CHE 310 exams from fall 2008 are available on line.

<http://www.nku.edu/~russellk/courses/chm310/310exam.htm>

Use of exams prior to the fall 2007 is not allowed without the written consent of the instructor. Solutions for old exams are not available. However, if you work an exam, I will personally go over the entire exam with you. At that time, if you wish, I will give you a copy of an older exam to work on.

**Posting Scores** Each student will adopt the name of a Chemistry Nobel Laureate. I will use your chosen Laureate to post scores. Students may request not to have their scores posted, but they are still expected to adopt a Laureate. Laureates can be chosen through the course web page.

**E-mail** I regularly contact the entire class through e-mail. You will enter your e-mail address when you choose your Laureate. I do not use Blackboard. If your e-mail address changes or you wish to give me additional e-mail addresses please let me know (by e-mail of course). I am not responsible for e-mails that are not received.

**Regrades:** Any corrections in grading must be addressed within 48 hours of when an exam returned in class or a homework assignment is due. Regrades must be requested in writing using the on-line regrade form. *You must clearly explain all errors and provide support for why your answer is correct.* Requests not giving sufficient explanations will be dismissed. When a regrade is requested, the entire exam or homework may be regraded.

**Problems:** In combination with your reading of the text, you should practice the problems within the chapters. Problems at the end of the chapter will be also assigned and posted on the Internet. Textbook problems will not be graded.

**Homework:** Homework will be regularly be assigned during the semester using the OWL system. Assignments will typically have a one week duration, although some may be longer or shorter. Students may make as many attempts as they wish before the due date. After the due date I will record the score from all attempts taken up to that point. Each assignment, regardless of the number of questions, will be scaled to approximately 10 points, depending on the number of questions. Students not completing assignments by the due dates can receive half-credit if they the problems completed before **11:59 PM on Monday, May 4, 2009**. Students who have completed assignments by the due dates are encouraged to take additional attempts since exam questions may come from OWL homework assignments. Several of the homework assignments will require the Marvin Sketch and jmol javascript applets. These applets can be downloaded through the OWL system. You will need to develop a proficiency in the use of these applets.

Your home work component of your final grade will be calculated using the following equation:

$$\text{HW} = 85 * \left( \frac{\text{Your total HW points}}{\text{Total possible HW points}} \right)$$

**Quizzes:** Short quizzes (60 seconds) will be given at the beginning of each class period. Quizzes will usually be three points. Answers will be recorded using clickers in most cases. Quizzes will reflect key concepts from the previous lecture *or material that you should be familiar with from your reading of the lecture material for that class period*. There are absolutely no make-ups for quizzes. Your quiz component of your final grade will be calculated using the following equation:

$$Q = 17.5 * \left( \frac{\text{Your total Quiz points}}{\text{Total possible Quiz points}} \right)$$

Quizzes will begin at 8:00 AM promptly.

**Eligibility:** In order to be eligible for quiz scores to be applied to your grade you must be in good standing in the class. Good standing is defined as a score of 60 or better on the previous exam or instructor approval for individuals with scores below 60. Instructor approval will only be granted after a one-on-one meeting with the instructor. Students with scores below 60 will have one week from the date where the exam is returned to the class to meet with the instructor. This policy will not apply to any quizzes taken during that week. All students begin the class in good standing.

**Tutorials:** There are a number of Internet tutorials created for this class. These tutorials are designed to help you with many of the more difficult problems of organic chemistry, in particular those which are spatial.

**Tutoring:** Tutoring for CHE 310 is available free of charge through the NKU Student Learning Center (<http://lap.nku.edu/>)

**What I recommend:** **Colored Pens:** In my lectures I often use a color scheme to highlight different aspects of the material. Students are encouraged to also use colored pens when taking notes.

**Three Notebooks:** Use one notebook to take in class notes. Use a second notebook to *critically* recopy your notes while supplementing them with material from the textbook. Identify questions and get answers! Use the third notebook to work problems from the text and from OWL.

**Model Kits:** There are many types of models, but the models sold by the ACS Student Affiliates will be sufficient (\$20 cash – my office). **You will be allowed to use these models on all exams this semester.**

**On Reserve:** The following are on reserve at the library (under Kempton):

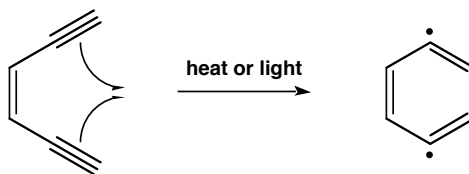
- 1) Solution Manual for Ege
- 2) Guide To Electron Pushing

**Attendance:** NKU policy states that class attendance is mandatory. I will take attendance daily. Students not attending 80 % of the lectures will be dropped from the course. Instructor initiated drops will not be executed until after the first exam. I will use attempted quizzes as the record of attendance. Remember, class begins at promptly at 8:00 AM. I use the Official US Time Clock (<http://www.time.gov/>). Tardiness is a distraction to the instructor and other student. If you are late to class, and want to be counted as in attendance, it is your responsibility to sign in with the instructor after class.

**Disability Services** 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/](http://www.nku.edu/~disability/).

**Academic integrity** The work in this course is subject to The *Northern Kentucky University 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.

The *Northern Kentucky University Student Honor code* will be strictly enforced in this class. Cheating is an extremely serious offense and will not be tolerated! Any unauthorized assistance on an examination or homework is considered cheating. In accordance with the *Code of Student Rights and Responsibilities*, faculty members have the right to determine actions to be taken when a student is caught cheating. Penalties for cheating can range from, but are not limited to, scores of zero on individual assignments or exams to expulsion from the University and does include failure of the course.



**The Bergman Cyclization**

Note: This syllabus is subject to change

Last revised : August 21, 2007