CHE 311 - 001: Organic Chemistry II  
Summer 2015  
Instructor: Prof. K.C. Russell  
Office: Natural Science Center 350  
Internet: www.nku.edu/~russellk  
Course web page: www.nku.edu/~russellk/courses/che311/311.htm  
e-mail: russellk@nku.edu  
Phone: (859) 572 - 6110

What you need:  
Organic Chemistry with Biological Applications, 3rd ed. McMurry  
• A clicker for taking quizzes  
• An OWL code

Prerequisite:  
A grade of “C-” or better in CHE 310

Course Times:  
Monday - Thursday, 10:15 – 11:30 AM; SC 305

Office Hours:  
M, Tu 9:15 – 10:15 am; W, Th 11:30 am – 12:30 pm  
I am also available by appointment.  
One can always contact me by calling, text, email, chat...

Learning Outcomes:  
At the end of this lecture course students should be able to

1) understand the types of reactions typical for compounds containing the C-X group (X = halide, OH, OR, NR2), aldehydes, ketones, carboxylic acids, esters, acyl halides, amides, and aromatic rings.  
2) analyze compounds based on their functional groups in order to predict chemical reactivity.  
3) apply the principles of electron motion to provide mechanisms for a selection of fundamental organic reactions  
4) evaluate simple organic molecules in order to create possible synthetic routes  
5) analyze spectral data in order to predict the structures of the organic compounds which created them.

Communication  
I regularly contact the entire class through e-mail. By default I will use your NKU email address. If you wish to give me additional or alternate email addresses please let me know (by email of course). I am not responsible for e-mails that are not received. When sending email please observe proper email etiquette. (http://xrl.us/nkuetiquette) Please include a proper subject line and sign your name. No response will be given to emails containing coarse or other inappropriate language.  

I generally reply to emails within 24 h, often sooner. If you do not hear from me, please try again. Do not hesitate to phone, text, chat via Facebook, etc.
Grading Policy: Points towards your course grade will be accumulated according to the following table:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam #1</td>
<td>100</td>
</tr>
<tr>
<td>Exam #2</td>
<td>100</td>
</tr>
<tr>
<td>Exam #3</td>
<td>100</td>
</tr>
<tr>
<td>ACS Final Exam</td>
<td>200</td>
</tr>
<tr>
<td>In-Class Quizzes &amp; Homework</td>
<td>50</td>
</tr>
<tr>
<td>OWL Homework</td>
<td>50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>600</strong></td>
</tr>
</tbody>
</table>

If you are within 1% of the next higher grade and have 100 % or better on your OWL homework you will receive the next higher grade.

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>(≥ 86.00 %)</td>
</tr>
<tr>
<td>A-</td>
<td>(83.00 – 85.99 %)</td>
</tr>
<tr>
<td>B+</td>
<td>(80.00 – 82.99 %)</td>
</tr>
<tr>
<td>B</td>
<td>(76.00 – 79.99 %)</td>
</tr>
<tr>
<td>B-</td>
<td>(73.00 – 75.99 %)</td>
</tr>
<tr>
<td>C+</td>
<td>(69.00 – 72.99 %)</td>
</tr>
<tr>
<td>C</td>
<td>(64.00 – 68.99 %)</td>
</tr>
<tr>
<td>C-</td>
<td>(60.00 – 63.99 %)</td>
</tr>
<tr>
<td>D+</td>
<td>(55.00 – 59.99 %)</td>
</tr>
<tr>
<td>D</td>
<td>(50.00 – 54.99 %)</td>
</tr>
<tr>
<td>F</td>
<td>(≤ 49.99 %)</td>
</tr>
</tbody>
</table>

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%.

Hour Exams: Three 100 point semester exams will consist of short answer questions and will take place during class on the following dates:

- **Hour exam I** CH 10-13 Tuesday, June 16, 2015
- **Hour exam II** CH 14-17 Tuesday, June 30, 2015
- **Hour exam III** CH 18-21 Tuesday, July 14, 2015

Exam etiquette: Plan ahead! You will not be allowed to bring anything to exams except writing instruments and your student ID card, which you should place on your desk. *You may not have any personal electronic devices on your person during the exam, with the exception of non-calculating wristwatches.* Persons found in possession of electronic devices during the test will receive a zero for the exam and be reported to the Dean of Students. If you bring other items to the exam you may leave them in the front of the room for the duration of the exam. The instructor will not be responsible for items that may be lost or stolen. My advice is to bring nothing into the room except what you need to take the test.
Final Exam: Thursday July 23, 2015. 10:15 AM

The final will be the ACS exam, cumulative for the entire book.
A study guide for the final is available through the ACS

http://www4.uwm.edu/chemexams/guides/details_guides.cfm?ID=163

The Student Affiliates of the American Chemical Society may also have copies available for sale (at discounted rates) through my office. It is possible that a small component of the final exam may be taken directly through OWL. All OWL problems will involve 3-dimensional structural analysis.

Missed Exams: **No make-up exams will be given.** If you are have an excused absence day of one of the three semester hour exams, you must notify me in advance. The score for the missed exam will be half of your final exam score. You may only miss one exam. You will receive a score of zero and not be able to replace your score if no notification is given. You will be dropped from the class if you miss two exams.

OWL Homework:

Homework will be regularly be assigned during the semester using the OWLv2 system. Assignments are due each Sunday at approximately 11:55 pm. Late homework will not be accepted.

Students who have completed assignments by the due dates are encouraged to take additional attempts since exam question may come from OWLv2 homework assignments.

Students will have four attempts to answer each question or complete a group. If you cannot answer a question or complete the group in those attempts you probably need some help. If you get some assistance and contact DrR your attempts will be reset. This will reset the entire assignment. The latest that a reset request can be made is 8:00 PM the night the assignment is due.

The homework component of your final grade will be calculated using the following equation:

\[
HW = 50 \times \left( \frac{\text{Your total OWL points}}{\text{Total possible OWL points}} \right)
\]

Note: **OWLv2 content my not be captured, copied or recorded by any electronic means.** Content may be transcribed by hand but may not be further replicated by any electronic means. Content recorded by hand is for the sole use of the individual who has taken the information and it may not be disseminated or shared with others. Failure to follow these guidelines will be considered a serious violation of the Student Honor Code, be reported to the Dean of Students and result in failure in the course.
In-Class Quizzes & Homework: Short, *closed-note* quizzes (60 seconds) will may be given at the beginning of each class period. Quizzes will usually be four 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. Lecture reading and/or in-class homework assignments for the next period will be posted within one hour after lecture on the course homework page.

There are absolutely no make-ups for in-class homework assignments or quizzes. Your quiz component of your final grade will be calculated using the following equation:

\[
Q = 55 \times \left( \frac{\text{Your total quiz points}}{\text{Total possible quiz points}} \right)
\]

Quizzes will begin at 10:15 am promptly. I use the Official US Time Clock ([http://www.time.gov/](http://www.time.gov/)). Students taking a quiz will automatically receive one point.

Posting Scores: Each student will adopt the name of a Chemistry Nobel Laureate. If you were enrolled in my course last semester, you will need to choose a new Laureate. I will use your chosen Laureate to post quiz and homework 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. Exam scores will be posted on Blackboard after the exams have been returned in class, and only for those who have received their exams. If you are not in class to pick up your exam it is your responsibility to make arrangements to pick up your exam from my office.

Re-grades: Any corrections in grading must be addressed within 48 hours of when an exam returned in class or a homework assignment is due. Re-grades must be requested in writing using the on-line re-grade 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 re-grade is requested, the entire exam or homework will be re-graded.

[http://www.nku.edu/~russellk/courses/regrade.pdf](http://www.nku.edu/~russellk/courses/regrade.pdf)

Old Exams Exams for the following courses which I have taught are available on line: CHE 311 spring 2015, CHE 310 fall 2014.

[http://www.nku.edu/~russellk/courses/che311/311exam.htm](http://www.nku.edu/~russellk/courses/che311/311exam.htm)

Use of CHE 311 exams written prior to the spring 2014 is not allowed without the written consent of the instructor. Solutions for the old exams are not available. However, I would be more than happy to personally go over the old exam with you once you have attempted to answer questions.
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.

On Reserve: The following are on reserve at the library (under Ma):
1) Solution Manual for McMurry
2) Guide To Electron Pushing

Problems: In combination with your reading of the text, you should practice the problems within the chapters. Textbook problems will not be graded but I would be happy to go over any problems you have with you.

Tegrity: Whenever possible lectures are recorded using Tegrity and made available on blackboard shortly after class.

Recommended: 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. Listen to the lectures again. 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 except the final.

Classroom Decorum: PDAs, cell phones, pagers, calculators, and mp3 players are not to be used during the period unless specifically requested by the professor. Electronic communication devices must be in a quiet mode during class. In addition, laptop computers are not to be used unless students are using them to view on-line overheads, follow the textbook or for other class-related activities. Students found using laptop computer for non-class activities during the class period will no longer be allowed to use their laptops in class. Faculty members reserve the right to dismiss or to have removed disruptive students from their classrooms. Please try to be on time, tardiness is a distraction to the instructor and other students.

Disability Services: Students with disabilities who require accommodations (academic adjustments, auxiliary aids or services) for this course must register with the Office of Disability Services. Please contact the disability service office in University Center Suite 320 or by calling (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 http://www.nku.edu/~disability.

Attendance: I do not take attendance. It is to your own detriment not to attend class.
**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 and academic advantage over fellow students or avoid academic requirements.

http://www.nku.edu/audience/current-students/honor.html

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. The use of previously graded OWL assignments (other than your own) 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.

**Course Evaluations:**

Northern Kentucky University takes Instructor and Course Evaluations very seriously as an important means of gathering information for the enhancement of learning opportunities for its students. It is an important responsibility of NKU students as citizens of the University to participate in the instructor and course evaluation process. During the two weeks prior to the end of each semester classes, you will be asked to reflect upon what you have learned in this course, the extent to which you have invested the necessary effort to maximize your learning, and the role your instructor has played in the learning process. It is very important that you complete the online evaluations with thoughtfully written comments. Student evaluations of courses and instructors are regarded as strictly confidential. They are not available to the instructor until after final grades are submitted, and extensive precautions are taken to prevent your comments from being identified as coming from you. Student who does not complete the course evaluation (or opt out of doing so in the evaluation) should expect to incur a two week delay in access to his or her course grade beyond the university's official date for grade availability.

To complete online evaluations go to http://eval.nku.edu. Click on "student login" and use the same USERNAME and PASSWORD as used on campus.

**Uncollected papers:**

All materials that have been turned in by students and are eligible to be returned will generally be returned in class. Any assignment(s) not collected by the student who submitted the assignment(s) will be retained for one year from the date of the final exam. Unless arrangements have been made in writing, after that date any materials that can be recycled will be. Any remaining materials will be discarded.

**Credit Hour Definition:**

The Northern Kentucky University Credit Hour Policy can be found here.
A dehydrobenzoannulene
Note: This syllabus is subject to change.

Students are responsible for understanding all items on the syllabus. Any items not understood must be brought to the attention of the instructor within the first two weeks of class.

Last revised: May 19, 2015