



**CHE 310: Organic Chemistry I**  
**Spring 2019**

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

**Office** : Natural Science Center 350

**Internet**: <http://www.nku.edu/~russellk>

**Course web page**: <http://www.nku.edu/~russellk/courses/chm310/310.htm>

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**What you need:**

- Organic Chemistry with Biological Applications, 3<sup>rd</sup> ed. McMurry
- Access code for OWLv2
- A Turning Point Cloud Account and appropriate device for taking quizzes

**Prerequisite:** A grade of “C-” or better in CHE 121

**Course Times:** Monday, Wednesday & Friday 10:00 - 10:50 AM; SC 305

**Office Hours:** Found at my [home page](#) and on any CHE 310 web page  
Drop by anytime, I have an open door policy.  
I you want to be sure to find me outside of office hours, please make an appointment.  
if you need me fast: Call, text, email, Facebook chat.

**Teaching Assistant:** TA: Reagen Powers<[powersr2@mymail.nku.edu](mailto:powersr2@mymail.nku.edu)>

TA Times are posted on the [CHE 310 help page](#)

**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 - 5 in future courses and careers. (e.g. chemistry, biochemistry, biology, pharmacology, medical school, etc.)

**Available Points:**

Item	Points
Semester Exams (3)	300
OWLv2 Homework	45
In-class Quizzes and homework	45
Final Exam	150
<b>Total:</b>	<b>540</b>

**Letter Grades:**

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

	A ( $\geq 86.00\%$ )	A- (83.00 – 85.99 %)
B+ (80.00 – 82.99 %)	B (76.00 – 79.99 %)	B- (73.00 – 75.99 %)
C+ (69.00 – 72.99 %)	C (64.00 – 68.99 %)	C- (60.00 – 63.99 %)
D+ (55.00 – 59.99 %)	D (50.00 – 54.99 %)	
	F ( $\leq 49.99\%$ )	

\*Under no circumstances can the homework be used to increase your final course grade beyond your best exam letter grade.

\*If you are within 1% of the next higher grade and have 100 % or better on your OWLv2 homework you will receive the next higher grade, unless this is in conflict with the rule above.

**Semester Exams:**

Three 100 point semester exams will consist of short answer questions and will take place from 2:30 – 4:30 pm or from 3:30 – 5:30 pm in SC 402 on the dates below (chapter coverage is estimated):

Hour exam I	CH 1-4	Friday, February 15, 2019
Hour exam II	CH 5,6,11	Friday, March 22, 2019
Hour exam III	CH 7-10	Friday, April 19, 2019

Students who begin an exam at 2:30 pm must stay until approximately 4:00 pm before being excused.

Exam etiquette: Plan ahead! You will not be allowed to have anything at your desk except writing instruments, model kits, your student ID card. A drink or snack may be allowed, but instructors reserve the right to carefully inspect any item you have at your desk. **Furthermore, you may not have any personal electronic devices on your person during the exam. This includes any watch capable of receiving text messages.** 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:**

The date and time for the 150 point Final Exam is:

**Wednesday, May 8, 2019, 10:10 am – 12:10 pm in SC 308**

The final will be cumulative for the semester.

A small component of the final exam may be taken computer aided and will likely involve 3-dimensional structural analysis.

**Missed Exams:**

**Make-up exams must be completed within two business days after the regularly scheduled exam.** Make-up exams will be different than the one given to the class. As a result, make-up exams could be more difficult. To have an excused absence the day of one of the three semester hour exams, you must notify me **24 hours in advance** to be eligible to take the make-up exam. Students will receive a score of zero and not be able to replace your score if no notification is given.

## Old Exams

CHE 310 exams from fall 2017 and 2018 are available on line.

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

Use of exams prior to the fall 2017 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. If a student completes the first practice exam, they may have one additional exam for practice.

## Homework:

Homework will be regularly be assigned during the semester using the OWLv2 system. Assignments are due on select Wednesday's 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 questions 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 time to request a reset is 8:00 pm on the due date.

The home work contribution to your final grade will be calculated using the following equation:

$$HW = 45 * \left( \frac{\text{Your total OWL points}}{\text{Total possible OWL points}} \right)$$

**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. 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:

You should assume that short, closed-note quizzes will be given at the beginning of each class period. 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.*** The reading for next period will be posted on the **Homework** web page shortly after each class. There are absolutely no make-ups for quizzes.

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

$$Q = 50 * \left( \frac{\text{Your total Quiz points}}{\text{Total possible Quiz points}} \right)$$

Quizzes will begin at 10:00 am promptly. I use the Official US Time Clock (<http://www.time.gov/>). Students are responsible for making sure that their clickers are in working order. Students taking a quiz will automatically receive one point.

- Regrades:** 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 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 will be regraded.  
URL: <http://www.nku.edu/~russellk/courses/regrade.pdf>
- Posting Scores** Each student will adopt the name of a Chemistry Nobel Laureate. I will use your chosen Laureate to post in-class 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 though the **Choose a Laureate** web page. If you forget your laureate you can contact DrR. Exam scores will be posted on Canvas 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.
- Mid-term grades will be posted in myNKU by the deadline established in the Academic Calendar (<http://inside.nku.edu/registrar/calendars.html>).
- 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.
- Problems:** In combination with your reading of the text, you should practice the problems within and at the end of the chapters. Textbook problems will not be graded but may be on exams.
- 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.
- Help!!:** There are a plethora of ways to get help with CHE 310.  
Check out the following link:  
<http://www.nku.edu/~russellk/courses/chm310/310help.html>
- On Reserve:** The following are on reserve at the library:  
1) Solution Manual  
2) Guide To Electron Pushing
- Attendance:** *I do not take attendance, per se. It is to your own detriment not to attend class.*

**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. Colored pens are allowed on exams, except for red.

**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.**

**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 computers 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.

**Inclusiveness** Diversity describes an inclusive community of people with varied human characteristics, ideas, and world views related, but not limited, to race, ethnicity, sexual orientation, gender, religion, color, creed, national origin, age, disability, socio-economic status, geographical region, or ancestry. Institutions that value diversity provide a supportive and nurturing environment that honors and respects those human differences. It is our responsibility as citizens of the NKU community to promote and value a campus climate that is safe, fair, respectful, and free from prejudice.  
(<https://inside.nku.edu/inclusive.html>)

**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://disability.nku.edu/>

**Fuel NKU** Any student who has difficulty affording groceries is encouraged to contact FUEL NKU, the campus food pantry for students. FUEL NKU is located in University Center (UC) 142, and may be reached at [fuel@nku.edu](mailto:fuel@nku.edu). Any student who is experiencing challenges with accessing sufficient food to eat every day, or who lacks a safe and stable place to live, is urged to contact the Dean of Students for support. Our Dean of Students is Arnie Slaughter, and he may be reached at [slaughtera@nku.edu](mailto:slaughtera@nku.edu). Furthermore, please notify the instructor if you are comfortable in doing so. This will enable them to provide any resources that they may possess. The website is <https://inside.nku.edu/fuelnku.html>

**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. (See the link below, Section V. Academic Policies and Procedures, subsection H. Student Honor Code: Cheating & Plagiarism)

<https://inside.nku.edu/scra/information/students/rights-responsibilities.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.

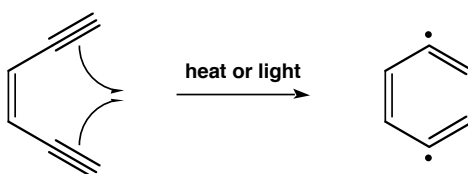
To complete online evaluations go to <http://eval.nku.edu>. Click on "student login" and use the same USERNAME and PASSWORD as used on campus.

**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:**

- In accordance with federal policy, NKU defines a credit hour as the amount of work represented in the achievement of student learning outcomes (verified by evidence of student achievement) that reasonably approximates one hour (50 minutes) of classroom instruction and a *minimum* of two hours of out-of-class student work. For every course credit hour, a typical student should expect to spend *at least* three hours per week of concentrated attention on course-related work including, but not limited to, class meeting time, reading, reviewing, organizing notes, studying and completing assignments. At least an equivalent amount of time is expected for other academic activities such as online courses, laboratory work, internships, practica, studio work and other academic work leading to the award of credit hours.
  - The NKU department of chemistry has historically found that students must utilize additional out-of-class time beyond the established minimum to be successful in this course. For each class period the typical student should anticipate spending a minimum three hours outside the regularly scheduled class time studying the course material and completing assignments to be successful.



**The Bergman Cyclization**

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.

**Note: This syllabus is subject to change**

Last revised: January 8, 2019