

## CHE 311 - 001: Organic Chemistry II

Spring 2019

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

**Office** : Natural Science Center 350

**Internet**: [www.nku.edu/~russellk](http://www.nku.edu/~russellk)

**Course web page**: [www.nku.edu/~russellk/courses/che311/311.htm](http://www.nku.edu/~russellk/courses/che311/311.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 310
- Course Times:** Monday, Wednesday & Friday, 11:00 – 11:50 AM; SC 305
- Office Hours:** Found at [www.nku.edu/~russellk](http://www.nku.edu/~russellk)  
I have an open door policy. Visit any time.  
One can contact me by calling, text, email, chat... and always by appointment
- Peer Instructors:** SI: Anna Vernier ([verniera1@mymail.nku.edu](mailto:verniera1@mymail.nku.edu)) & Bryce Dye ([dyeb2@mymail.nku.edu](mailto:dyeb2@mymail.nku.edu))
- Help!!** There are a plethora of ways to get help with CHE 311.  
Check out the following link:  
<http://www.nku.edu/~russellk/courses/che311/311help.html>
- Learning Outcomes:**
- At the end of this lecture course students should be able to
- 1) utilize critical thinking to solve scientific problems through the application of chemical science knowledge.
  - 2) understand the types of reactions typical for compounds containing the C-X group (X = halide, OH, OR, NR<sub>2</sub>), aldehydes, ketones, carboxylic acids, esters, acyl halides, amides, and aromatic rings.
  - 3) analyze compounds based on their functional groups in order to predict chemical reactivity.
  - 4) apply the principles of electron motion to provide mechanisms for a selection of fundamental organic reactions
  - 5) evaluate simple organic molecules in order to create possible synthetic routes
  - 6) 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:

Activity	Points
Exam #1	100
Exam #2	100
Exam #3	100
ACS Final Exam	150
In-Class Quizzes	45
OWL Homework	45
<b>Total</b>	<b>540</b>

If you are within 1% of the next higher grade based on the scale below 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:

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

**Hour Exams:** Three 100 point semester exams will consist of short answer questions and will take place in from 2:30 – 4:30 pm or from 3:30 – 5:30 pm in SC 201.

<b>Hour exam I</b>	<b>Friday, February 22, 2019</b>
<b>Hour exam II</b>	<b>Friday, March 29, 2019</b>
<b>Hour exam III</b>	<b>Friday, April 26, 2019</b>

Students who begin an exam at 2:30 pm must stay until all students have started their exam before being excused. Students must take exams with the rest of the section unless permission has been granted by the instructor. Students who fail to take the exam with the section where it scheduled will be considered absent and receive a score of zero.

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 or at your desk 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:****Monday May 6, 2019. 10:10 AM – 12:00 PM, SC 305**

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

[http://www4.uwm.edu/chemexams/guides/details\\_guides.cfm?ID=163](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:** *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 and could be more difficult. If you have an excused absence day of one of the three semester hour exams, you must notify me *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.

**OWL Homework:** Homework will be regularly be assigned during the semester using the OWLv2 system. Assignments are due Wednesdays 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. If you are unable to access the problems as practice after completing an assignment contact Dr. Russell. Several of the homework assignments will require ChemDoodle and require the manipulation of 3D chemical structures.

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 may 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 home work component of 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 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:**

Short, *closed-note* quizzes (60 seconds) will usually be given at the beginning of each class period. Quizzes will usually be four points. Answers will be recorded using “clickers” in most cases. However, some in-class quizzes may be written. 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. Reading and problems that you may be quizzed on are posted on the Homework page (<http://www.nku.edu/~russellk/courses/che311/311hw.htm>).

There are no make-ups for quizzes. Your 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 11:00 AM promptly. Students taking the quiz will automatically receive one point.

**Posting Scores:**

Each student will adopt the name of a Chemistry Nobel Laureate to be used to post quiz and homework scores. If you were enrolled in my course last semester you will need to choose a new Laureate. Students may request not to have their scores posted, but are encouraged to adopt a Laureate. Laureates can be chosen through the course web page. 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.

**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>

**Old Exams**

Exams for CHE 311 spring 2017, CHE 310 fall 2017 and spring 2018 are available on line.

<http://www.nku.edu/~russellk/courses/che311/311exam.htm>

Use of CHE 311 exam written prior to the spring 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.

**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 all problems within and at the end of each chapter. Textbook problems will not be graded but I would be happy to go over any problems with you.
- Kaltura:** Whenever possible lectures are recorded using Kaltura and made available on Canvas shortly after 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.  
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.
- 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://www.nku.edu/~disability>).
- Testing Center:** The testing center requires scheduling of exams 24 h prior to when they are to be taken. It is incumbent upon the student to make arrangements with DrR before that. If arrangements are not made in time it may not be possible to take the exam at the testing center.
- Attendance:** ***Students must attend 80 % of the lectures to remain enrolled in the course.*** I will use quizzes as my record of attendance. If you miss the quiz, you may sign the late sheet at the end of class. Instructor initiated drops will not be executed until after the first exam. Class begins at 11:00 AM promptly. I use the Official US Time Clock (<http://www.time.gov/>). Tardiness is a distraction to the instructor and other students.

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

<http://scra.nku.edu/Infostudents/Infostudents.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.

Students who do 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.

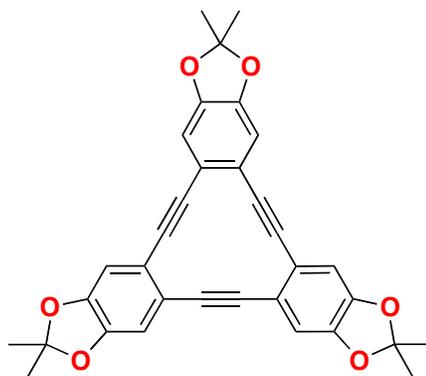
To complete online evaluations go to <http://eval.nku.edu>. Click on "student login" and use the same USERNAME and PASSWORD as used on campus.

**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 appropriate materials will be recycled, repurposed or discarded.

**Credit Hour Definition:**

The Northern Kentucky University Credit Hour Policy can be found [here](#).



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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: January 11, 2019