

213 Spencer Chemistry Building, Mon and Wed 5:15-6:30 pm

Instructor	Prof. Ekaterina N. Kadnikova
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Phone	816-235-5937
Office	Spencer Chemistry Building 109B
Office hours	Mon 4-5 pm and 6:30-7 pm, Wed 4-5 pm, and by appointment
Website and Blackboard	The latest version of this syllabus will be posted at http://k.web.umkc.edu/kadnikovae . All other course information, including all announcements, keys to quizzes and exams, old problem sets and exams, and your grades will be posted <u>on the Blackboard</u> (blackboard.umkc.edu). Your Blackboard username and password are the same as those in your UMKC e-mail account (<i>username@umkc.edu</i> e-mail address).
Course announcements	All announcements will be posted only on the Blackboard (blackboard.umkc.edu).
Discussion board	You are encouraged to post your questions about this course and its content in the Discussion Board section of the Blackboard (blackboard.umkc.edu), instead of e-mailing. Questions from students' e-mails about this course and its content would also be answered in Discussion Board as well, if doing so would not violate FERPA.
Pre-requisites	CHEM 321 and CHEM 321L. All students in CHEM 322 must have received a grade of "C-" or better in each of the following chemistry courses: CHEM 211, 211L, 212, 212L, 321, 321L.
Co-requisite	CHEM 322L (Organic Chemistry Laboratory II)

About this course and its objectives

This course is a continuation of Organic Chemistry I (CHEM 321). A thorough understanding of Chapters 1-10 of the textbook and a good command of the concepts covered in CHEM 321 are essential for the successful completion of CHEM 322. The objective of the course is to complete a solid foundation of the modern organic chemistry, including the fundamentals of structure, reactivity, mechanisms, reactions, and physical techniques.

Class attendance

Lecture attendance is strongly encouraged but will not be recorded. Keep in mind that there will be quizzes on most Mondays. Changes to the schedule or to the assignments will be announced in class and posted on the Blackboard. It is the responsibility of the student (not of the Instructor) to obtain the material covered in class and to be aware of the announcements.

Class materials

The required text is the 3rd edition of *Organic Chemistry* by Maitland Jones (W. W. Norton & Co., ISBN 0-393-92408-4). A molecular model kit and the *Study Guide / Solutions Manual* (ISBN 0-393-92458-0) could be useful. The following books by David R. Klein (Wiley) will also be useful for organic chemistry students: *Organic Chemistry as a Second Language: Translating the Basic Concepts* (ISBN 0-471-27235-3) and *Organic Chemistry II as a Second Language: Second Semester Topics* (ISBN 0-471-73808-5). You may view those books during the office hours.

You will also need Internet access (to use Blackboard for announcements and other course materials)

Grading

Class total is 600 points (quizzes (100) + monthly exams (300) + final exam (200)). The approximate grading scale will be as follows:

85-100 % = A (the highest grade), 70-84 % = B (work of distinction), 55-69 % = C (average work)
40-54 % = D (passing, but unsatisfactory), 0-39 % = F (failure without credit)

The grade cut-offs will not be raised but maybe slightly lowered, depending on the class performance. Plus/minus grading will be used sparingly.

The letter grade definitions are taken from the *UMKC 2009-2010 Undergraduate Catalog* (<http://web2.umkc.edu/catalog/Grading.html>). There is no "extra credit" work.

Quizzes (100 points)

A take-home review quiz (RQ) will be distributed on Wed Aug 26 and will be due in class on Mon Aug 31. Take home Quiz 1 (Q1) will be distributed on Wed Sept 2 and will be due in class on Wed Sept 9. Remaining quizzes (Q2-Q10) will be usually given in class on Mondays. You can drop your worst quiz out of 11 (RQ, Q1-Q10). If you miss a quiz for any reason, this would be your drop quiz. Your best 10 quizzes will be counted towards the quiz total of 100 pts. There will be no make-up quizzes.

Examinations (500 points)

Three examinations (100 pts each) will be given during the semester. Evening help sessions will be conducted a day or two prior to each exam. There will be no make-up exams. If you miss one (*and only one*) exam with a valid documented excuse (such as an illness confirmed by a doctor's note or a documented family emergency), the grade will be given out of the total of 500 points (instead of 600) following the grading scale shown above. In all other circumstances, you will receive *zero points* for the missed exam.

A comprehensive final exam (200 pts) will be given on Monday, December 14, 5:45-7:45 pm.

No scores will be dropped, but if you perform better on the final than on one of the other exams, you can replace that exam's score with your % score on the final.

Homework problems

It is impossible to learn organic chemistry just by reading the textbook and attending lectures. It takes practice, practice, and practice to understand the principles of the organic chemistry and to convert them into useful skills. It is thus paramount to solve a lot of problems. You should do all in-text problems while you are reading the material. If you cannot solve them, do not go forward, but reread the previous sections until you understand how to do the problem.

Once you completed the chapter, do the additional problems at the end of the chapter. The list of the problems below aims to help you focus your attention on the problems most relevant to the topics discussed in class. These problems also serve as good examples of the exam questions (additional problem sets and old exams are also available on the Blackboard). You are encouraged to do as many problems as possible, including problems not on the list, and I, of course, would be happy to discuss any of them during the office hours.

Chapter	Problems
11	34, 35, 38, 40, 41, 43, 47
12	38, 39, 40, 41, 42, 43, 44, 45, 51, 52, 55
13	28, 29, 31, 32, 33, 34, 40, 43, 44, 48
14	44, 45, 47, 48, 49, 50, 52, 53, 56, 59, 62
15	34, 35, 40, 41, 48, 49, 50, 52, 55, 56, 65, 66, 67, 71, 72, 74, 78
16	33, 34, 36, 37, 39, 40, 45, 46, 49, 52, 54, 62, 63
17	35, 37, 39, 40, 42, 43, 44, 49, 54, 56, 72, 73
18	27, 28, 29, 30, 32, 33, 41
19	43, 44, 50, 51, 52 (D=C ₇ H ₁₄ O), 55, 59, 60, 72, 80, 81
20	26, 27, 28, 32, 47

Academic honesty

Cheating and other forms of academic dishonesty shall not be tolerated in this class. It is your responsibility to understand the facets of academic honesty and to uphold the UMKC rules of academic conduct (http://www.umkc.edu/helpline/conduct_standard.cfm). Violators will receive an F grade for the course and face disciplinary action from the University.

Academic accommodations for students with disabilities

If you have a documented disability and desire academic accommodations, please contact the Office of Services for Students with Disabilities as soon as possible (<http://www.umkc.edu/disability/>).

Sexual harassment and discrimination

University of Missouri-Kansas City has a zero tolerance policy for sexual harassment, intimidation, or discrimination of any kind. If you (or our peers) have a question or experience anything of this kind, please talk with and/or report this conduct to the Departmental Chair, the Dean, and Affirmative Action Office. UMKC policy is online at <http://web2.umkc.edu/chancellor/ode/documents/complaintprocess.pdf>.

Regrade and grievance procedures and conduct of the class

Regrade requests for the exams should be submitted to the Instructor as soon as possible, and no later than within one week of receiving the graded exam back. Any grievance about grading or conduct of the class should be taken first with the Instructor. After contact with the instructor, further comments and complaints may be addressed to the Chemistry Department Chair. This class shall be conducted in a professional and respectful manner and in compliance with UMKC's policies (http://web2.umkc.edu/catalog/Undergraduate_Academic_Regulations_and_Information.html).

Texting

Texting during class is rude. You may be asked to leave. Texting (or similar activities) during the quizzes and exams is forbidden; it will be considered cheating regardless of the content of the messages.

Words to the wise:

- Review the material covered in CHEM 321. You are expected to know that material. CHEM 322 and CHEM 5520 will build on that knowledge.
- **Work hard and daily!** Learning organic chemistry takes a lot of hard work and hours of studying. There are no magic formulas or simple solutions. Don't wait until the last week or last night before an exam to start studying.
- Read the material before the lecture. The lecture should then be easier to follow and lecture notes easier to take. Re-read the material soon after the lecture, review and correct your lecture notes, if necessary.
- *How to do your homework.* Work the problems within the chapters as you come to them. If you are unable to solve the problem at the time, you have probably missed the key point of the section. Reread that section of the chapter and attempt to rework the problem. Work the assigned problems at the end of each chapter (it would be beneficial to work some of the unassigned ones as well). Only check the answer in the study guide after you have given the problem an honest effort.
- You are encouraged to do as many problems as possible, including problems not on the list, and I, of course, would be happy to discuss any of them during the office hours.
- Form study groups or get your own tutor early on, if you know that you will need extra help.
- Take advantage of the help sessions before each exam to get your final questions answered. Do not come to the help sessions expecting to absorb some useful information without having studied the material beforehand. In that case, you are better off spending that time studying.
- Above all, **do not fall behind** and think that you will catch up later. In all likelihood, you will only fall further and further behind.
- Be prepared for the quizzes. They are designed to keep you from falling behind, so take your performance on them seriously.
- Come see the Instructor (during her office hours or make an appointment), especially you are having problems with this class.

TENTATIVE SCHEDULE

This schedule is tentative and is subject to change during the course of the semester. Any changes will be announced in class and posted on the Blackboard. It is the responsibility of the student to be aware of the changes.

Monday	Lecture	Quiz	Wednesday	Lecture etc.
Aug 24	Syllabus, review of Ch 1-10	—	Aug 26	Review of Ch 1-10 <i>RQ distributed</i>
Aug 31	Chapter 11	RQ due	Sept 2	Chapter 11 <i>Q1 distributed</i>
Sept 7	Labor Day		Sept 9	Q1 due , Chapter 11, 12
Sept 14	Chapter 12	Q2 (distributed)	Sept 16	Q2 due , Chapter 12, 13
Sept 21	Chapter 13, 14	—	Sept 23	Exam 1
Sept 28	Chapter 14	Q3	Sept 30	Chapter 14
Oct 5	Chapter 15	Q4	Oct 7	Chapter 15
Oct 12	Chapter 15	Q5	Oct 14 *	Chapter 16
Oct 19	Chapter 16	—	Oct 21	Exam 2
Oct 26	Chapter 17	Q6	Oct 28	Chapter 17
Nov 2	Chapter 17	Q7	Nov 4	Chapter 18
Nov 9	Chapter 18	Q8	Nov 11 **	Chapter 18
Nov 16	Chapter 19	—	Nov 18	Exam 3
Nov 23	Thanksgiving break		Nov 26	Thanksgiving break
Nov 30	Chapter 19	Q9	Dec 2	Chapter 20
Dec 7	Chapter 20	Q10	Dec 9	review
Dec 14	Final Exam 5:45-7:45 pm			

* October 16 (Friday) is the last day to withdraw without assessment.

** November 13 (Friday) is the last day to withdraw. Any student withdrawing by that date would receive W (not WF).