

**Spring Semester (Winter) 2009**  
**Organic Chemistry 2 - CHEM 322**  
**111 Royal Hall**  
**MWF 1:00 - 1:50 pm**

**Instructor:** Professor Kathleen V. Kilway  
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**Webpage:** The chapter outlines, last year's exams, homework assignments, the most recent syllabus, and any other general information for CHEM 322 on the web <http://cas.umkc.edu/chem/Faculty/courses/Kilway/2002ochem.htm>.

**Prerequisite:** A grade of a C- or better in CHEM 211 (with lab) and 212R (with lab), CHEM 321 (with lab) or the equivalent courses is required for this course. If you have taken CHEM 320/320L, please come and talk with me asap. There is also a corequisite of CHEM 322L. If you taken CHEM 322L previously, please stop by the Chemistry Office located in SCB 205 to pick up a lab memo.

**Text:** The required text is "Organic Chemistry" Maitland Jones, Jr., 3<sup>rd</sup> ed., W.W. Norton & Company, New York, 2005. The "Study Guide / Solutions Manual" and a molecular model kit are also highly recommended. There are used books and solutions manuals. Also available this Fall is an Organic Chem Book package. It contains the text package, which includes the solutions manual and a CD ROM of reaction mechanisms.

**Objectives of this Course:** This course is a continuation of Organic Chemistry I (CHEM 321) and a thorough understanding of Chapters 1 - 10 is essential for the successful completion of Organic Chemistry II. The objective of this course is to explore further the field of organic chemistry including: physical techniques, complex reactions and mechanistic methods.

**Class Attendance:** Attendance at lecture will be recorded on a regular basis, and it is very important for a thorough understanding of the material. It is also very important in cases such as changes to the schedule, class assignments, and quizzes. It is the responsibility of the student **not the instructor** to obtain the material covered in class. Please limit distractions during the class (i.e., turn off cell phones, limit talking during the recitation, ask questions one at a time, and be present at the beginning of the lecture).

**Exams:** Three regular exams will be given during the course of the semester, each covering 2 – 4 chapters. You will be given approximately 80 minutes to take the exam (RH 111 from 1-2:20 PM and RH 206 from 12:30-1:50 PM; backup is RH 305). For those who have conflicts (e.g., class from 12 – 1 PM and 2 – 3 PM on Fridays), please contact the instructor to take the exam at a time other than the times listed above.

If you are unable to make an exam for any reason, this one will be the exam that will be replaced with the final. Makeup exams will be given only in extreme circumstances **ONLY IF PRIOR** approval is granted by the instructor. These exams will be given **before not after** the regular scheduled exams.

There will be homework assignments (5 points per chapter) totaling 50 points. The homework is due by 5 PM (either in class or 510H FH) the class period after we finish a chapter. One question from each homework assignment will be graded for credit on that assignment. There will be a one-point penalty on the homework for every day late. It is strongly advised that the student completes all homework problems in the textbook in order to understand the material. The exam questions are sometimes taken from the homework assignments. Student collaboration is encouraged and as such, only one set of homework needs to be submitted by the group (no more than 2 students) for credit. Students should be able to understand and finish the problems on their own.

A comprehensive final exam will be administered on the day specified in the class schedule (**WED. MAY 6 FROM 1-3 PM**). Each regular exam will count 100 points, homework assignments (total 50 points), and the final exam as 200 points, for a total of 550 points. If you perform better on the final than one of the other exams, you can replace that score with your average score on the final.

**Grading:** No exams will be dropped but if the final average is higher than one of the tests, the final will replace that exam. The grade cutoffs will not be raised. No other "extra" credit nor incompletes will be given after the final has been given. Grades will not be curved but computed numerically and assigned using the following scale:

**90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; 0-59 = F**

**Office Hours:** Office hours will be announced in class. There will be problem sessions with the instructor throughout the semester. Attendance is not required. Normally, walk-ins outside of office hours will not be accepted, but please come and see the instructor if there is a problem. There are two supplemental instruction leaders assigned to this class [Amy Kucharo (akkf22@umkc.edu) and Maria Iliakova (miliakova@umkc.edu)], both of whom took the class with me. Their sessions and office hours will be announced in class. Names of tutors are available at both the Chemistry and the Pharmacy Departmental Offices. We will also have a peer-tutoring program this semester. These times and room assignments may change throughout the semester so refer to the webpage for updated information.

**Cheating:** Academic dishonesty will not be tolerated in this course. Please read the appropriate section in your student manuals. If caught, the student will receive a failed grade for the course. The College of Arts and Sciences has asked instructors to include definitions of plagiarism. Please see the definitions below for any questions.

**Grievance Procedures and Conduct of the Class:** Any grievance about grading and/or conduct of the class should be taken up first with the Instructor. Further comments and complaints should be addressed to the Chemistry Department Chair only after the Instructor has been consulted. This class will be conducted in compliance with UMKC's Affirmative Action/Equal Opportunity and Sexual Harassment Policies (see UMKC General Catalog).

**Laboratory Exams:** There will be two CHEM 321L exams given on Saturdays, March 14 and April 25, from noon until 2 PM in RH 111.

**Copyright:** Course material (e.g., course outlines, handouts, recordings) is to be used only in the context of the course. Audio will be available online at: [http://k.web.umkc.edu/kgqhyr8/C322\\_Home.html](http://k.web.umkc.edu/kgqhyr8/C322_Home.html)

**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. For the UMKC policy, check <http://www.umkc.edu/chancellor/ode/ComplaintProcess.asp>

**Homework Assignments in order of appearance:**

Chapter 11: 7,9,12,15,17,18,20,21,25,34,35.

Chapter 12: 1,2,4,5,6,7,15,16,17,21,24,26,28,29,30,38,39,40,43,45,51,52.

Chapter 13: 7,8,9,10,13,16,17,20,21,25,28,29,31,32,33,37,38,42,44,48.

Chapter 14: 1,2,5,7,12,18,19,22,26,27,29,30,33,34,36,40,45,47,48,49,50,51,53.

Chapter 15: 9,10,14,16,19,23,24,25,26,30,32,33,34,35,37,39,40,41,42,43,48,49,50,52,56,64,65,67,70,71,72,73,74,77.

Chapter 16: 5,6,8,11,13,14,15,16,18,20,23,31,32,36,37,38,40,45,46,53,57,62,63.

Chapter 17: 1,3,4,5,10,11,13,14,17,18,22,23,25,27,34,35,37,39,41,42,44,48,54,56,61,63.

Chapter 18: 6,9,10,12,14,20,21,22(a-c),24,25,26,27(a-g),28(no mech d and no g),29,30,31,33,42.

Chapter 19: 1,3,5,9,11,13,16,17,18,22,23,26,28,36,42,44,48,51,52,53,55,78,79,80.

Chapter 20: 3,5,6,7,18.

***Tentative Schedule:*** This schedule is ***tentative and subject to change*** during the course of the semester. Any changes will be announced in class and updated on the website. It is the responsibility of the student to be aware of the changes

1/12	Chapter 11 and Syllabus	3/13	Chapter 16
1/14	Chapter 11	<b>3/14</b>	<b>CHEM 322L Lab Exam</b>
1/16	Chapter 11*	3/16	Chapter 16/17 <sup>16</sup>
1/19	Martin Luther King Holiday	3/18	Chapter 17
1/21	Chapter 11/12	3/20	Chapter 17
1/23	Chapter 12 <sup>11</sup>	3/23	Spring Break
1/26	Chapter 12	3/25	Spring Break
1/28	Chapter 12	3/27	Spring Break
1/30	Chapter 12/13	3/30	Chapter 17
2/2	Chapter 13 <sup>12</sup>	4/1	Chapter 18 <sup>17</sup>
2/4	Chapter 13	4/3	Chapter 18
<b>2/6</b>	<b>Exam 1*</b>	4/6	Chapter 18
2/9	Go over Exam 1 and Chapter 13 <sup>†</sup>	4/8	Chapter 18
2/11	Chapter 13/14	<b>4/10</b>	<b>Exam 3<sup>18***</sup></b>
2/13	Chapter 14 <sup>13</sup>	4/13	Go over Exam 3 and Chapter 19
2/16	Chapter 14	4/15	Chapter 19
2/18	Chapter 14	4/17	Chapter 19
2/20	Chapter 14	4/20	Chapter 19
2/23	Chapter 15 <sup>14</sup>	4/22	Chapter 20 <sup>19</sup>
2/25	Chapter 15	4/24	Chapter 20
2/27	Chapter 15	<b>4/25</b>	<b>CHEM 322L Lab Exam</b>
3/2	Chapter 15/16	4/27	Chapter 20
3/4	Chapter 16 <sup>15</sup>	4/29	REVIEW
<b>3/6</b>	<b>Exam 2**</b>	5/1	A&S Reading Day
3/9	Go over Exam 2 and Chapter 16	<b>5/6</b>	<b>FINAL EXAM 1:00 - 3:00 PM<sup>20</sup></b>
3/11	Chapter 16		

***IMPORTANT DEADLINES:*** \*2/6 Last day for change Credit to Audit, \*\*3/6 Last day to drop without assessment, and \*\*\*4/10 Last day to withdraw from class with assessment. WEPT exams 2/25 and 4/15. Academic calendar: [www.umkc.edu/registrar/acal.asp](http://www.umkc.edu/registrar/acal.asp) All academic deadlines are strictly adhered to in this class. Any student withdrawing by 4/10 will earn a W not an WF.

Definitions:

1) UMKC General catalog: "The term plagiarism includes, but is not limited to: (i) use by paraphrase or direct quotation of the published or unpublished work of another person without fully and properly crediting the author with footnotes, citations or bibliographical reference; (ii) unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials; or (iii) unacknowledged use of original work/material that has been produced through collaboration with others without release in writing from collaborators."

2) Department of English" "...You plagiarize any time you use the words or thoughts of another person in your work without attribution. This includes copying passages, phrases, and significant terms without giving the proper citation. It also includes close paraphrasing. You can even plagiarize an idea if you try to pass it off as your own. ..."

3) High-school/college Dual Credit program (English 110) [modified]: "Plagiarism is the use of another person's writing or ideas without giving that person credit by means of source citation and (in some cases) quotation marks. All source material, whether presented through direct quotations or through summary, paraphrase, or precise, must have an adequate source citation. "...plagiarism may ... involve the use of either the actual wording of the source material or the ideas presented there."