CHEM 335  Spring Semester 2016
Organic Chemistry II  10:00-10:50 AM, MWF, 120 Budig

Chemistry 335 is the second half of a two-semester course in organic chemistry.

INSTRUCTOR: Prof. David R. Benson; 5070 Malott.
Office Hours: Mondays and Wednesdays 11 am-Noon; Thursdays 10-11 am, or by appt.

LECTURE TA: Melissa Denler; 1003 Malott.
Office Hours: Tuesdays 12-1 pm; Thursdays 4-5 pm, or by appt.

COURSE EMAIL ACCOUNT: CHEM335@ku.edu

COURSE MATERIALS

Required:
*McGraw-Hill Connect Plus online homework system. A Connect Plus access code, good for two years, is included in the textbook package sold through the bookstores. Connect Plus access can also be purchased online. *If you set up a Connect account last semester for CHEM 330, it will still be active.

Optional, but highly recommended:
*Student study guide/solutions manual for the textbook. This item is included in the textbook package available in the bookstores. It contains detailed solutions to ALL in-chapter and end-of-chapter problems in the textbook. Since Organic Chemistry is all about problem solving, this is a very valuable resource.
*Molecular models. *Ten minutes with a set of molecular models can save hours of frustration. Two different sets from HGS are available in the KU bookstore. Well worth the investment.

EXAMS: Hour exams will be given on the following days, in 120 or 130 Budig:

Hour exam 1 (100 points): Thursday, February 18, 8:00-9:30 PM
Hour exam 2 (100 points): Thursday, March 24, 8:00-9:30 PM
Hour exam 3 (100 points): Thursday, April 21, 8:00-9:30 PM
Final Exam (150 points): Friday, May 13, 7:30-10:00 AM

MISSED EXAMS: There will be no make-up exams for the hour exams. *If you miss an hour exam due to illness or other situation beyond your control, and provide acceptable documentation, your score for that exam will be replaced by your percentage score on the final exam. *If you miss an hour exam for any reason not deemed acceptable by the instructor, your score for that exam will be zero. All students must take the final exam.

EXAM CONFLICTS: If you have a valid, documented time conflict with one of the exams (other classes, exams, etc.), you will have the opportunity to take the exam earlier in the day. You will need to let Melissa know about valid conflicts at least two weeks in advance.
REGRADING OF EXAMS Please carefully check your exam for errors in grading. Any exam requiring re-grading should be brought to our attention no later than one week after the exams are made available. The SCANTRON portions of the exams will not be re-graded.

ONLINE PRE-LECTURE EXERCISES: By 3 pm on Mondays, Wednesdays and Fridays, a 2 point exercise on material to be covered in the next class period will be posted to Connect. The exercises must be completed prior to class. A maximum of 60 points can be accumulated via these pre-lecture exercises, which will go toward your final course grade. The purpose of these exercises is to encourage you to read ahead, and to be prepared to participate in in-class problem solving sessions. You will be given two attempts on each exercise, and the average score from those attempts will be recorded.

COURSE GRADING: Your final grade will be based upon your performance on pre-lecture exercises, hour exams and the final exam. Points will be distributed as follows:

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<tr>
<td>Pre-Lecture Exercises</td>
<td>60 points</td>
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<tr>
<td>Hour exams</td>
<td>300 points</td>
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<tr>
<td>Final Exam</td>
<td>150 points</td>
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<td>Total:</td>
<td>510 points</td>
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FINAL LETTER GRADES: The following grading scale will be used, with rounding (i.e. A/A- cutoff will be 92.5%). A small curve may be applied if the class average warrants.

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<tr>
<td>93% - 100% = A</td>
<td>73% - 76% = C</td>
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<tr>
<td>90% - 92% = A-</td>
<td>70% - 72% = C-</td>
</tr>
<tr>
<td>87% - 89% = B+</td>
<td>67% - 69% = D+</td>
</tr>
<tr>
<td>83% - 86% = B</td>
<td>63% - 66% = D</td>
</tr>
<tr>
<td>80% - 82% = B-</td>
<td>60% - 62% = D-</td>
</tr>
<tr>
<td>77% - 79% = C+</td>
<td>Below 60% = F</td>
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PLUS SESSIONS: PLUS Chemistry will be holding daily M-F discussion/review sessions throughout the semester. The PLUS schedule can be accessed at http://www2.ku.edu/~plus/organicchemistry.shtml

EXAM REVIEW SESSIONS: Review/discussion sessions led by Dr. Benson will be held the Monday prior to each hour exam. Times and locations will be announced in class.

BLACKBOARD: http://courseware.ku.edu. The Blackboard site will contain the course syllabus, schedule, handouts, homework and other problem assignments, and Powerpoint slides used in lectures. All will be in PDF format that you can download and print. We will also use Blackboard to post announcements. If you have problems accessing the web site call the Blackboard help center at 864-0200.

You must have a KU email address or register your email address with KU to utilize the web site and to receive email messages. If you need to register your email address or obtain a KU address for the first time, go to http://www.ku.edu/computing/services.
PROBLEM SOLVING: The better your problem solving skills, the better you will do in the course. As you study the text, work the relevant in-chapter problems to be sure you understand the material, and then work as many additional problems as you can. A list of recommended end-of-chapter problems from each chapter in the textbook will be posted to Blackboard. I will also post a set of analogous electronic problems for each chapter via Connect. You may also wish to take advantage of LearnSmart, adaptive learning software integrated with the Smith e-text that is available through Connect. Please refer to the last page of the syllabus for additional study tips.

LECTURE RECORDING: The audio portion of each lecture, together with the associated PowerPoint slides, will be captured using a technology called Echo360, and made available the same day on the course Blackboard site. This should obviate the need to make your own recordings. If you do intend to make your own audio recordings, you must first obtain my permission. Video recording or taking of still electronic images during lectures is prohibited.

COMMERCIAL NOTE- TAKING: Pursuant to the University of Kansas’ Policy on Commercial Note-Taking Ventures, commercial note-taking is not permitted in Organic Chemistry 2 (CHEM 335). Lecture notes and course materials may be taken for personal use, for the purpose of mastering the course material, and may not be sold to any person or entity in any form. Any student engaged in or contributing to the commercial exchange of notes or course materials will be subject to discipline, including academic misconduct charges, in accordance with University policy. Please note: note-taking provided by a student volunteer for a student with a disability, as a reasonable accommodation under the ADA, is not the same as commercial note-taking and is not covered under this policy.

DISABILITY ACCOMMODATIONS: The Academic Achievement & Access Center (AAAC) coordinates accommodations and services for all KU students who are eligible. If you have a disability for which you wish to request accommodations and have not contacted the AAAC, please do so as soon as possible. Their office is located in 22 Strong Hall; their phone number is 785-864-4064 (V/TTY). Information about their services can be found at http://disability.ku.edu. Please also contact me privately in regard to your needs in this course.

ACADEMIC MISCONDUCT: Cheating, or the appearance thereof, including giving or receiving help on an exam, looking at another student’s paper while taking an exam, falsifying exam papers, using unauthorized materials, notes, crib sheets, or the equivalent, will not be tolerated and will be dealt with in accordance with University regulations (see http://www2.ku.edu/~unigov/usrr.html#art2sect6). The Chemistry Department reserves the right to make and keep copies of individual examination papers.

PLEASE REFRAIN FROM THE FOLLOWING ACTIVITIES DURING CLASS:

1) Talking to your neighbor(s), except during problem solving sessions.
2) Reading newspapers
3) Sending or receiving cell phone calls, text messages, tweets, etc.
4) Using laptop computers (you would quickly find that laptops are not convenient for taking notes in this class)
5) Preparing to leave while the instructor is still lecturing (unless the whistle has sounded)
6) Recording lectures without prior approval from the instructor
HOW TO STUDY ORGANIC CHEMISTRY: Success in organic chemistry requires mastering a substantial body of factual information and the use of this information in the solution of problems. **You should plan a minimum of three hours of study and problem solving outside of class for every hour of lecture.** To study productively, you should carefully read the assignments, marking key items to be learned on each page. Pay particular attention to the “Essential Problem Solving Skills” listed at the end of each chapter. As you study the text and your lecture notes, train your hand to draw the structures of molecules and write equations and mechanisms. Build models of various structures and learn to translate these three dimensional structures onto paper. Get a large quantity of scratch paper and write, write, write!

Work as many problems as possible, in writing and in full detail. There is no other way to acquire the skills you will need to succeed in organic chemistry. Organic chemistry is a cumulative subject and the material you learn in the first week of the course will still be used at the end of the second semester of organic chemistry. Even though the assigned problems are not graded, it is extremely important that you work them. If you struggle with a problem that you can't solve immediately, don't give up and look up the answer. Review related material in your lecture notes and in the text. If you still can't solve the problem set it aside and try it again later. In this way you will gradually learn the important material without trying to memorize it.

You will also learn a way of thinking, of looking for patterns and similarities between seemingly unrelated ideas and facts. If you must look up the answer to a problem, be sure that you understand how to solve that type of problem. Organic chemistry requires a lot of hard work and consistent effort and studying. Don't try to memorize the text and cram before exams. If you do, you are courting disaster! An understanding of reactions is essential and although facts must be learned, they will quickly overwhelm you unless you understand the general principles and see the relationships among the facts.

1. Come to class every day, take careful notes, and read and rewrite the notes within 24 hours. Your notes are an important resource for study. Numerous studies have shown that lecture material loses its value if it is not reviewed shortly after class.

2. Keep up. Organic chemistry is cumulative. This seems obvious, but failing to do so is the major reason for not doing well in the course.

3. Study actively. Write, write, write! Explain concepts to members of your study group. Work out strategies for solving various types of problems. Writing mechanisms is crucial to success in organic chemistry.

4. Work as many problems as possible. This is the only way to learn organic chemistry.

5. Keep a calendar. Know when exams are and plan your time so that you are not trying to learn material the night before the exam.

6. Be well rested before an exam. Because of the cumulative nature of organic chemistry it is not possible to "pull an all-nighter" and do well on exams.