

ORGANIC CHEMISTRY II (CHEM 232) – SPRING 2014

This syllabus subject to change pending notification verbally in class or via the email list.

MWF 9:10-10:00 am, Hayes 109

Prof. Yutan Getzler

Office: Tomsich 308
Office hours: Monday & Wednesday, 10 am to noon, Monday 1 pm, or by appointment
PBX: 5304
email: getzlery
website: <http://chemistry.kenyon.edu/faculty/getzler.htm>

Text: Vollhardt, K. Peter C.; Schore, Neil E. Organic Chemistry: Structure and Function, 6th edition

Optional: Schore, Neil E. Study Guide and Solutions Manual for Organic Chemistry, 6th edition

Material: Molecular Visions Molecular Model Kit

Point Distribution:

3 Midterm Exams @ 120 points each	360
Final Exam	360
Problem presentation & homework	200
<u>Class participation</u>	<u>80</u>
Total	1000

Exam Schedule:

<u>Exam</u>	<u>Primary Content</u>	<u>Date</u>
Midterm I	Chs. 17, 18	W, Feb 5 th
Midterm II	Chs. 19, 20, 23	F, Feb 28 th
Midterm III	Catalysis Readings	F, Apr 4 th
Final	ACS; Chs. 13 – 16, 22	F, May 9 th , 8:30 am

Academic Honesty: “Kenyon College is, at the core, an intellectual community of scholars – students and faculty – engaged in the free and open exchange of ideas. Critical to this lively exchange and deep engagement with ideas is the academic integrity of our work, both inside and outside the classroom.” In short, all materials submitted for credit must be your own work (tinyurl.com/KC-Acad-Honesty). I hold you responsible for ensuring each others’ honesty; if you know of a violation, please promptly relay your concerns to myself or the Dean of Students.

Goals: Chemistry 232 provides a foundation of knowledge for other science courses at Kenyon. More fundamentally, it is a continued exploration of the wild and wonderful lens organic chemists use to view the world. By the end of the semester you should be able to read and understand much of the current published original research in organic chemistry. By the end of the semester you should have a better understanding of how the world works.

Prerequisite: By far the most important prerequisite for this course is a mind that is both curious and skeptical. Organic chemistry is a science that continually builds upon itself, and this course is acutely dependent upon your working knowledge of Chemistry 231 (first semester) material. As such exams in this course will contain topics from Chemistry 231. For example, you should continue to know how to synthesize alcohols, alkyl halides, etc.

Attendance: The material you will be expected to know for this course continuously builds on itself. It is quite easy to get behind if you miss a topic. Thus, class attendance is mandatory. As stated in the college policy:

“Absences for reasons of illness are not ordinarily excused: only when a student is declared by the College physician to be infirm (in a hospital or at home) will a health report be sent from the Health and Counseling Center to the Dean of Students, giving the days when each patient is judged infirm and recommending that the student’s class absences be excused.”

ONLY the Dean of Students or Dean of Academic Advising (NOT the instructor) may offer Excused Absences. If you miss in-class assignments or exams due to severe illness or emergency, your name must appear on the *Excused Absence List* to make up the work; if not, a failing grade will be given. In the event of an absence, you are responsible for securing any notes, handouts or announcements from the class.

If you choose to participate in varsity athletics, note the college policy on attendance in the *Scheduling Guidelines for Athletic Contests* (http://documents.kenyon.edu/provost/cas_athlet_sched.doc). By the end of the first week of classes, notify me of all potential athletic conflicts, which may not exceed 10% of our meeting times (4 classes).

Studying: There are many potentially effective strategies for success. Read the text to be covered in class before coming to class. Read it again after class. Utilize the Math and Science Skills Center (<https://cip.kenyon.edu/content/mssc>). Work through the exercises and end-of-chapter problems, not just the assigned ones. Work through them three or four times. Pour libations to the chemical gods. Recopy your notes after each lecture. Make a slide-show of reactions you are trying to learn and play it as your screen-saver. Most importantly, ask question in class and during office hours. I also believe your model kits are essential. Familiarity with three-dimensional structure is a crucial skill for organic chemistry and one often neglected by students.

In-class problem presentations: At the start of class, one or two students will be called to the board to present a homework problem. Presentations cannot last beyond 9:13 am (9:16 am if there are two presentations). I will ask one follow-up question. Presentations will be graded based on preparation/accuracy (70%), time (20%) & follow-up (10%). I will cut you off at the end of the time period, which may impact your accuracy. If you are not present, you receive no credit. You have one free pass, which is used if you are absent when your name is called.

Homework: Every class, a few randomly selected students may be asked to hand in the homework problems. If you are absent, you will receive no credit for this assignment. As above, you have one free pass.

Class participation: I will call on you to answer relevant questions; evaluation is on a 0, ✓-, ✓, ✓+ basis. Asking a question relevant to the intellectual content of the course counts towards your participation grade.

Exams: The first three exams will be 100 minutes long, running either from 8:20 to 10:00 (or 9:10 to 10:50 if you have an academic conflict). While the focus of each exam will be the material covered since the last exam, you must be familiar with basic concepts (stoichiometry, conformational analysis, etc) from earlier in the semester and prior courses. The final will be cumulative with one third of the material coming *directly* from prior exams. You may bring a cyclohexane model to each exam, but may not use a calculator or your own scratch paper.

email Contact: I will answer questions *via* email, often quickly. Messages sent after 9 pm, are unlikely to be read before morning. When class is in session, I will respond to student email within 24 hours >99% of the time.

Electronic devices: Do not use them in class. This policy is not just because I am a grumpy old man who just doesn’t understand your generation and your music and, also, get off my lawn. Please see this excellent webpage by the American Psychological Association for supporting evidence www.apa.org/research/action/multitask.aspx.

Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990: If you have a disability requiring accommodation to fully participate in this class, identify yourself to Erin Salva, Coordinator of Disability Services (PBX 5145, salvae@kenyon.edu). All information and documentation of disability is confidential. No accommodations will be given in this course without notification from the Coordinator of Disability Services.