

**Chemistry 0310 – 1100 (Class Number 10642)**  
**Organic Chemistry I**  
**Fall 2018**  
**Lecture: TuTh 11:00–12:15, Chevron 152**  
**Recitation: Tu 16:00–16:50, Chevron 152**

**Professor**

Dr. Kazunori Koide  
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The subject line of your email must begin with “Chem0310”, and you must use your Pitt account.

**Office Hours**

Tuesday 17:00–17:45 (immediately after recitation)  
Friday 16:15–17:00

**How to Make an Appointment Outside of the Office Hours**

Talk to the instructor. Avoid E-mail.

**Course Materials**

*Organic Chemistry*, 7<sup>th</sup> Edition, K. P. C. Vollhardt and N. E. Schore  
*Study Guide and Solutions Manual for Organic Chemistry*  
Molecular Model Set

**Availability of Old Exams**

All the problem sets for recitations are the copies of previous exams.

**Exams**

There will be three midterm exams. The 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> exams will count for 18, 19, and 21% toward the course grade, respectively, and the final will count for 42 %. *Make-up exams will not be offered.* If you miss a midterm exam, the other exams will count proportionally toward the course grade. Provide a signed document if you miss one of the midterms due to personal reasons. *Your lowest score will not be dropped.*

A student may be found to have violated student obligations if he or she “attempts to influence or change one’s academic evaluation or record for reasons other than achievement or merit” (Student Conduct: I. Student Obligations item 13 in <http://www.as.pitt.edu/fac/policies/academic-integrity>).

**Problem Sets**

A problem set will be given and will not count toward the grade. Organic chemistry is best learned *through practice and repetition*, so completion of the problem sets is strongly encouraged. Answers to the problems will be discussed in the recitation.

**Lecture notes**

Lecture notes and recitation problem sets will be posted on the Courseweb.

**Accommodations for Disabilities**

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Office of Disability Resources and Services, 216 William Pitt Union, (412) 648-7890/(412) 383-7355 (TTY) as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course.

## Tutoring System

Academic Resource Center offers free tutoring to all students enrolled in Chemistry 310 & 320. The center is open Monday through Friday from 9am to 4pm. Tutoring sessions are generally one hour long, and students are encouraged to make an appointment in advance by calling 412-648-7920. The students can begin signing up for appointments as of the first day of classes. The ARC is located in G1 Gardner Steel Conference Center, right next to Thackeray Hall. Small group and individual tutoring is also available on a walk-in basis every Sunday, Monday, and Wednesday between 6-9pm in Room 111 of the O'Hara Student Center. If you have any questions or would like additional information about the ARC, please contact Mike Chirdon-Jones at 412-624-2060 or [mac260@pitt.edu](mailto:mac260@pitt.edu).

The Chemistry Department also offers a free tutoring system on the second floor of Chevron. Tutors' schedule will be posted.

## Final Letter Grades

There will be A+, A, A-, B+, B, B-, C+, C, C-, D, and F. An approximate score range for each letter grade will be announced after each exam.

To pass Organic Chemistry 1, additional rubrics are applied in addition to the sum of the raw scores. The student must demonstrate the understanding of the following concepts to pass:

- Resonance
- Hyperconjugation
- 3-Dimensional understanding of the molecules
- Grignard reaction
- Acid-base chemistry
- Structures and reactivities of carbanion, carbocation, and carbon radicals
- Drawing reasonable chemical structures that do not violate fundamental chemical principles.

<b>Week</b>		<b>Topics</b>	
1	8/28	Introduction, Alkanes	Ch 1
		Recitation Ch1	
	8/30	Alkanes	Ch 2
2	9/4	Alkanes	Ch 2
		Recitation Ch 2	
	9/6	Reactions of Alkanes	Ch 3
3	9/11	Reactions of Alkanes	Ch 3
		Recitation Ch 3	
	9/13	Cyclic alkanes	Ch 4
4	9/18	Cyclic alkanes	Ch 4
		Recitation Ch 4	
	9/20	Stereoisomers	Ch 5
5	9/25	Stereoisomers	Ch 5
		Recitation Ch 5	
	9/27	<b>Exam 1 (50 minutes)</b>	<b>Ch1-4</b>
		S <sub>N</sub> 2 reactions (25 minutes)	Ch 6
6	10/2	S <sub>N</sub> 2 reactions	Ch 6
		Recitation Ch 6	
	10/4	S <sub>N</sub> 2 reactions	Ch 6
7	10/9	S <sub>N</sub> 1 reactions, E1/E2 reactions	Ch 7
		Recitation Ch 7	
8	10/11	S <sub>N</sub> 1 reactions, E1/E2 reactions	Ch 7
	10/18	<b>Exam 2 (50 minutes)</b>	<b>Ch5-7</b>
		Alcohols (25 minutes)	Ch 8
9	10/23	Alcohols	Ch 8
		Recitation Ch 8	
	10/25	Alcohols	Ch 8
10	10/30	Alcohols and ethers	Ch 9
		Recitation Ch 9	
	11/1	Alcohols and ethers	Ch 9
11	11/6	NMR	Ch 10
		Recitation Ch 10	
	11/8	NMR	Ch 10

12	11/13	Alkenes and IR	Ch 11
		Recitation Ch 11	
	11/15	<b>Exam 3 (50 minutes)</b>	<b>Ch8-10</b>
		Alkenes and IR	Ch 11
13	11/20	Alkenes and IR	Ch 11
		Recitation Ch 11	
	11/27	Reactions of alkenes	Ch 12
		Recitation Ch 12	
14	11/29	Reactions of alkenes	Ch 12
	12/4	Alkynes	Ch 13
		Recitation Ch 12-13	
	12/6	Alkynes	Ch 13
Dec 11	2:00-3:40 PM	<b>Final exam</b>	<b>Ch1-13</b>

Midterm 1: Ch 1–4

Midterm 2: Ch 5–7

Midterm 3: Ch 8–10

Final Exam: Ch 1–13; 100 points from Ch11-13 and 100 points from Ch1-13

The midterm exam dates are tentative; exact midterm dates will be announced on the Courseweb at least 7 days before the exam.