

CHEM 0320: Organic Chemistry 2
Spring 2019

Prof. Peng Liu
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Lectures

Mondays, Wednesdays, and Fridays, 1:00pm-1:50pm
Chevron 152

Recitation (Voluntary)

Tuesdays, 4:00-4:50pm, Chevron 152

Office Hours

Mondays, 2:00-2:50pm, Eberly 225
Fridays, 2:00-2:50pm, Eberly 225

There will be no office hours on Monday, January 21st (MLK day).

Textbook

"Organic Chemistry: Structure and Function" by Vollhardt and Schore, 8th Ed., W.H. Freeman and Company (2018), ISBN-13: 978-1-319-07945-1. (7th Ed. will work, too)

Other Useful Course Materials

1. Molecular Model Set (recommended)
2. "Study Guide and Solution Manual" for the Vollhardt textbook (optional)
3. Cellphone or tablet with camera (optional, for "Molecule of the Day" before each lecture).

Grading Policy

Midterms: 3 x 100 pts
Final exam: 200 pts

The final score will be calculated from the highest of the following two options:

Option #1, include all three midterms:

$$\text{Total score (out of 100)} = (\text{MT1} + \text{MT2} + \text{MT3} + \text{Final}) / 5$$

Option #2, drop the lowest midterm:

$$\text{Total score (out of 100)} = (\text{two highest midterms} + \text{Final}) / 4$$

The final letter grade will be curved and assigned based on the total score.

Exam Schedule (tentative)

Midterm #1 (Ch. 14-16):	Friday, February 1, in class
Midterm #2 (Ch. 17-18, 24):	Friday, March 1, in class
Midterm #3 (Ch. 19-20, 23):	Monday, April 1, in class
Final (Ch. 14-24, 26):	Monday, April 22, 4:00-5:50pm

All exams are in the same classroom (Chevron 152).
Each midterm is 50 minutes. The final exam is 1 hour 50 minutes.

Make up exams will not be offered for midterms or the final exam. If you miss one midterm, that midterm is automatically dropped (see Option #2 above). If you have a time conflict with the final exam or have three or more final exams in one day, please contact the instructor as soon as possible. See the Final Exam Conflict Accommodation Procedure (http://www.registrar.pitt.edu/assets/pdf/final_procedure.pdf). The Registrar's office requires the student to submit the Final Exam Conflict Accommodation Form no later than Wednesday, March 13, 2019.

CourseWeb

Lecture notes and other electronic materials will be posted on CourseWeb. You can access CourseWeb through "my.pitt.edu" or "courseweb.pitt.edu".

Working Problems

Organic chemistry is best learned through practice and repetition. Although careful reading and rereading of our text is important, reading alone is not enough. The major goal of this course is to allow you to use your knowledge to solve organic chemistry problems in new situations. Working problems give you practice at doing this.

Each chapter in our book provides many problems to reinforce the concepts in the text and to encourage a deeper level of thinking and understanding. A set of the end-of-chapter questions will be given at the beginning of class on Fridays. These problem sets will not count toward your grade. However, you are strongly encouraged to take the time to work the problems. Think carefully and try your best for each question before checking answer keys in the *Study Guide and Solutions Manual*. Select problem set questions will be discussed in the recitation sessions on Tuesdays.

Contacting the Instructor

Please email the instructor (pengliu@pitt.edu) for general scheduling questions or personal matters (excusal, questions about grades, etc.). If you have questions about the end-of-chapter problems or the lecture materials, in-person discussions are much more effective than email because we frequently deal with 2D sketches and 3D structures of organic molecules. It is strongly recommended to ask these questions and discuss with the instructor during office hours or recitation rather than using emails.

Free Tutoring Resources

Free organic tutoring on the second-floor balcony (Chevron). Schedule will be announced.

Free peer tutoring offered by the School of Arts and Sciences:

<https://www.asundergrad.pitt.edu/connected-community/peer-tutoring>

Student Opinion of Teaching Surveys

Students in this class will be asked to complete a *Student Opinion of Teaching Survey*. Surveys will be sent via Pitt email and appear on your CourseWeb landing page during the last three weeks of class meeting days. Your responses are anonymous. Please take time to thoughtfully respond, your feedback is important to me. [Read more](#) about *Student Opinion of Teaching Surveys*.

University Policies:

Academic Integrity

Students in this course will be expected to comply with the [University of Pittsburgh's Policy on Academic Integrity](#). Any student suspected of violating this obligation for any reason during the semester will be required to participate in the procedural process, initiated at the instructor level, as outlined in the University Guidelines on Academic Integrity. This may include, but is not limited to, the confiscation of the examination of any individual suspected of violating University Policy. Furthermore, no student may bring any unauthorized materials to an exam, including dictionaries and programmable calculators.

Disability Services

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and [Disability Resources and Services](#) (DRS), 140 William Pitt Union, (412) 648-7890, drsrecep@pitt.edu, (412) 228-5347 for P3 ASL users, as early as possible in the term. DRS will verify your disability and determine reasonable accommodations for this course.

Tentative Course Schedule

	Monday	Wednesday	Friday
Jan	7 Delocalized π systems (14)	9 Delocalized π systems (14)	11 Delocalized π systems (14)
	14 Delocalized π systems (14)	16 Benzene (15)	18 Benzene (15)
	21 No class (MLK Day)	23 Benzene (15)	26 Electrophilic aromatic substitution (16)
	28 Electrophilic aromatic substitution	30 Electrophilic aromatic substitution (16)	Feb 1 <u>Midterm #1 (Ch. 14-16)</u>
Feb	4 Aldehydes and ketones (17)	6 Aldehydes and ketones (17)	Feb 8 Aldehydes and ketones (17)
	11 Aldehydes and ketones (17)	13 Enols and enolates (18)	15 Enols and enolates (18)
	18 Enols and enolates (18)	20 Enols and enolates (18)	22 Carbohydrates (24)
	25 Carbohydrates (24)	27 Carbohydrates (24)	Mar 1 <u>Midterm #2 (Ch. 17-18 and 24)</u>
Mar	4 Carboxylic acids (19)	6 Carboxylic acids (19)	8 Carboxylic acids (19)
	11 No class (Spring Break)	13 No class (Spring Break)	15 No class (Spring Break)
	18 Carboxylic acid derivatives (20)	20 Carboxylic acid derivatives (20)	22 Carboxylic acid derivatives (20)
	25 β -Dicarbonyl compounds (23)	27 β -Dicarbonyl compounds (23)	29 β -Dicarbonyl compounds (23)
Apr	1 <u>Midterm #3 (Ch. 19-20 and 23)</u>	3 Amines (21)	5 Amines (21)
	8 Amines (21)	10 More reactions with aromatic compounds (22)	12 More reactions with aromatic compounds (22)
	15 amino acids, peptides (26)	17 amino acids, peptides (26)	19 amino acids, peptides (26)

Final Exam (Ch. 14-24 and 26): Monday, April 22, 4:00-5:50pm