

GEORGETOWN UNIVERSITY
Organic Chemistry I, Chem 115-10 - Summer 2023
M-F 12:00pm to 2:00pm – Reiss 103
Prof. Oscar Zimmerman

Office: Reiss 236
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Office Hours: Professor Zimmerman by appointment

PRIMARY TEXT:

- “Organic Chemistry” by John E. McMurry (Brooks/Cole); 9th Edition.
- "Study Guide with Student Solutions Manual for McMurry's Organic Chemistry, 9th by John E. McMurry.

SUGGESTED SUPPLEMENTARY MATERIAL:

- Molecular models. (Strongly recommended).
- “Organic Chemistry as a Second Language” 3e: First Semester Topics by D. Klein (library reserves, 3rd floor Reiss).
- “Organic Chemistry as a Second Language” 3e: Second Semester Topics by D. Klein (library reserves, 3rd floor Reiss).
- "Problems Workbook for Organic Chemistry" by Svoronos/Sorlo, McGraw-Hill.
- “Organic Chemistry” by M. Jones Jr. and S.A. Fleming.
- “Organic Chemistry” by L.G. Wade.

CANVAS: We will extensively use Canvas for this course, and it will serve as the main platform for communication between the instructor and students. Links to additional course resources, like problems and graphics, can be found under 'Addn'l Resources'.

COMPOSITION OF FINAL GRADE:

Exam	%
1 st	20
2 nd	20
2 nd	20
<u>Final</u>	<u>40</u>
Total	100

GRADING SCALE:

≥92.5	A	≥80.0	B	≥70.0	C	≥50.0	D
≥85.0	A-	≥75.0	B-	≥65.0	C-	< 50	F
≥82.5	B+	≥72.5	C+	≥57.5	D+		

COMMUNICATING WITH THE INSTRUCTOR:

I am here to support your learning, and I encourage you to reach out to me via email or during office hours. To ensure student privacy, please use your official GU account when emailing me or the TA. Emails from other providers will unfortunately be ignored and deleted. When emailing, please include your name and a descriptive subject line. Lastly, please take advantage of all resources available to you before emailing - you might find the answer you need faster that way!

LECTURE TIME: I have requested two hours for this course, which is much longer than the normal allocation of time. This additional time allocation provides flexibility. As the course progresses, I may finish a lecture in less than two hours or skip a day if the course is on schedule. It's important to note that not all the material in the textbook can be covered during lectures. Therefore, I will be focusing on challenging concepts and topics that may not be in the textbook. It is your responsibility to cover all the material detailed in the "Coverage and Suggestions for Problems" document (available on Canvas).

CELLPHONE:

To ensure an engaged learning environment, please refrain from using your cellphone during class. If you need to use your phone for an emergency, please let me know in advance. Thank you for your cooperation in creating a respectful classroom community.

HONOR CODE: *In the pursuit of the high ideals and rigorous standards of academic life, I commit myself to respect and uphold the Georgetown University Honor System: To be honest in any academic endeavor, and To conduct myself honorably, as a responsible member of the Georgetown community, as we live and work together.*

Infringement will be reported, and procedures followed.

COPYRIGHT MATERIAL: All documents, emails, MS PowerPoint presentations, exams, quizzes, videos, as well as any recordings, are exclusively for use in the class. No material can be published or disseminated without my consent.

SPECIAL ACCOMMODATIONS: If you believe that you have a disability that will affect your performance in this class, please contact the Academic Resource Center (arc@georgetown.edu) for further information. The center is located in the Leavey Center, Suite 338. The Academic Resource Center is the campus office responsible for reviewing documentation provided by students with disabilities and for determining reasonable accommodations in accordance with the Americans with Disabilities Act (ADA) and University policies.

COURSE SCHEDULE.

The pace of the course may vary, which could impact exam **content**, but the exam **dates** are fixed

Week of	Topic	Chapter
June 05	Structure and Bonding	1
	Polar Covalent Bonds; Acids and Bases	2
	Alkanes and Their Stereochemistry	3
	Cycloalkanes and Their Stereochemistry	4
June 12	Stereochemistry at Tetrahedral Centers	5
	An Overview of Organic Reactions	6
	Alkenes: Structure and Reactivity	7
	Alkenes: Reactions and Synthesis	8
June 19	Alkynes: An Introduction to Organic Synthesis	9
	Organohalides	10
	Reactions of Alkyl Halides: Nucleophilic Substitutions and Eliminations	11
	Mass Spectrometry and Infrared Spectroscopy	12
June 26	Nuclear Magnetic Resonance Spectroscopy	13
	Conjugated Compounds and Ultraviolet Spectroscopy	14
	Benzene and Aromaticity	15
July 03	Catchup Day	
July 05	Study Day	
July 06	Final Exam NOTE: Morning!	

Exam Dates: One-hour exams - June 12, 20, and 26 (20% each)

Final exam - July 06 (8:30am-11:30am) (40%)

Make-Ups - None; with an acceptable excuse, the Final Exam will count 60%

IMPORTANT DATES:

June 19: Juneteenth, no classes

Classes Begin: 06/05/22
Classes End: 07/03/22
Last Day for Withdrawal: 07/08/22 by 11:59 PM