

GEORGETOWN UNIVERSITY
Organic Chemistry I, Chem 2100-10 - Summer 2024
M-F 12:00pm to 2:00pm – Reiss 262
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.

SEXUAL MISCONDUCT: Georgetown University and its faculty and staff are committed to supporting survivors and those impacted by sexual misconduct, which includes sexual assault, sexual harassment, relationship violence, and stalking. Georgetown requires faculty members, unless otherwise designated as confidential, to report all disclosures of sexual misconduct to the University Title IX Coordinator or a Deputy Title IX Coordinator. If you disclose an incident of sexual misconduct to a professor or staff member in or outside of the classroom (with the exception of disclosures in papers), that faculty or staff member must report the incident to the Title IX Coordinator, or Deputy Title IX Coordinator. The coordinator will, in turn, reach out to the student to provide support, resources, and the option to meet. Please note that the student is not required to meet with the Title IX coordinator and no action will be taken without the student's awareness. More information about reporting options and resources can be found on the Sexual Misconduct Website: <https://sexualassault.georgetown.edu/resourcecenter>.

If you would prefer to speak to someone confidentially, Georgetown has a number of fully confidential professional resources that can provide support and assistance. These resources include:

- Health Education Services: Sexual Assault Response and Prevention:
sarp@georgetown.edu
- Counseling and Psychiatric Services (CAPS): 202.687.6985

Additional resources are included below:

- Georgetown Self-Care Resource Guide:
<https://studenthealth.georgetown.edu/health-promotion/self-care/>
- Georgetown Wellness Wheel: <https://studenthealth.georgetown.edu/hoya-wellness-wheel/>
- Georgetown Guide to Recognizing Students in Distress:
<https://studentaffairs.georgetown.edu/studentoutreach/facultystaffresources/>

Pregnancy Modifications and Adjustments

Georgetown University is committed to creating an accessible and inclusive environment for pregnant students. At any point throughout their pregnancy students may request adjustments/modifications based on general pregnancy needs or accommodations based on a pregnancy-related complication or medical need. Students may also request accommodations following labor and delivery based on a complication or medical need.

To request pregnancy modifications, please complete the [SCS Pregnancy Modification Request Form](https://forms.gle/ZBfASxui7u13A8TU6): <https://forms.gle/ZBfASxui7u13A8TU6>

More information about pregnancy modifications can be found on the Title IX Georgetown University Website: <https://titleix.georgetown.edu/title-ix-pregnancy/student-pregnancy/>

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 03	Structure and Bonding	1
	Polar Covalent Bonds; Acids and Bases	2
	Alkanes and Their Stereochemistry	3
	Cycloalkanes and Their Stereochemistry	4
June 10	Stereochemistry at Tetrahedral Centers	5
	An Overview of Organic Reactions	6
	Alkenes: Structure and Reactivity	7
	Alkenes: Reactions and Synthesis	8
June 17	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 24	Nuclear Magnetic Resonance Spectroscopy	13
	Conjugated Compounds and Ultraviolet Spectroscopy	14
	Benzene and Aromaticity	15
July 01	Catchup Day	
July 02	Study Day	
July 03	Final Exam NOTE: Morning!	

Exam Dates: One-hour exams - June 10, 17, and 24 (20% each)

Final exam - July 03 (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: 06/03/24
Classes End: 07/03/24
Last Day for Withdrawal: 07/02/24 by 11:59 PM