

GEORGETOWN UNIVERSITY
Organic Chemistry II, Chem 116 – Summer 2020
M-F 12:00pm to 2:00pm - White Gravenor 405
Professor Dr. Oscar E. Zimmerman

Office: Reiss 240A
Telephone: 202-687-5954
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Office Hours: Professor Zimmerman by appointment

TEXT: "Organic Chemistry" by John E. McMurry (Brooks/Cole); 9th Edition.

SUGGESTED SUPPLEMENTARY MATERIAL:

- 1) "Study Guide with Student Solutions Manual for McMurry's Organic Chemistry, 9th by John E. McMurry. (Strongly recommended).
- 2) Molecular models. (Strongly recommended).
- 3) "Organic Chemistry I as a Second Language" 3e: Second Semester Topics by D. Klein (library reserves, 3rd floor Reiss).
- 4) "Organic Chemistry as a Second Language" 3e: First Semester Topics by D. Klein (library reserves, 3rd floor Reiss).
- 5) "Problems Workbook for Organic Chemistry" by Svoronos/Sorlo, McGraw-Hill
- 6) "Organic Chemistry" by M. Jones Jr. and S.A. Fleming.
- 7) "Organic Chemistry" by L.G. Wade.

CANVAS: We will use this resource extensively. The course page will serve as the portal for communication between the instructor and students.

Grades:

A-, A	85 - 100	D, D+	50 - 57.5
B-, B, B+	75 - 82.5	F	< 50
C-, C, C+	65 - 72.5		

CELL PHONES AND CALCULATORS: The use of cell phone during lecture is not permitted. If I see you 'texting, 'I will confiscate the phone and deduct two points from your final average as well.

E-MAIL: E-mail correspondence with the instructor is encouraged. That said, office hours are far more effective! When e-mailing the instructor and/or TA, please use your official GU account (to protect student privacy). E-mails received from other providers (Gmail, Yahoo, Hotmail, etc.) will be ignored and deleted. Please include your name and a subject line in all correspondence! Lastly, please consider all sources of information prior to sending an e-mail.

LAPTOPS: Use of laptops during the lectures is permitted ONLY by prior arrangement with me. If permitted, you will be required to sit in the last row of the lecture hall.

LECTURE TIME: I have requested two hours for this course, which is much longer than the normal allocation of time. This additional 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.

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.

IMPORTANT NOTE: Students joining Organic Chemistry II are expected to have reviewed material covered in Organic Chemistry I of the preceding session. See syllabus and text used for this Georgetown course.

COURSE SCHEDULE.

The actual pace of the course may vary (and impact exam *content*), yet exam *dates* are fixed.

Week of	Topic	Chapter
July 06-10	Chemistry of Benzene: Electrophilic Aromatic Substitution	16
	Alcohols and Phenols	17
	Ethers and Epoxides; Thiols and Sulfides	18
July 13-17	Aldehydes and Ketones: Nucleophilic Addition Reactions	19
	Carboxylic Acids and Nitriles	20
	Carboxylic Acid Derivatives: Nucleophilic Acyl Substitution Reactions	21
July 20-24	Carbonyl Alpha-Substitution Reactions	22
	Carbonyl Condensation Reactions	23
	Amines and Heterocycles	24
Jul 27-31	Biomolecules: Carbohydrates	25
	Carbohydrates (con'd)	25
	Biomolecules: Amino Acids, Peptides, and Proteins	26
Aug 03-04	Biomolecules: Nucleic Acids	28
	Catch-up/review	
	Review	
Aug 05	Study day	
Aug 06	Final Exam (Time: 8:30am-11:30am) NOTE: Morning!	

Exam Dates: One-hour exams - **July 13, 20,** and **July 27** (20% each)

Final exam - **August 06** (40%)

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

IMPORTANT DATES:

Classes Begin: 07/06/20
Classes End: 08/07/20
Last Day for Withdrawal: 08/04/20 by 11:59 PM