

CHEM 109C, ORGANIC CHEMISTRY

Fall 2022

Instructor: Armen Zakarian

Text: "Organic Chemistry", 8th edition by P. Y. Bruice [other editions may be suitable]
"Solutions Manual and Study Guide", 8th edition by P. Y. Bruice

Meeting Info: MWF 9:00-9:50 am, WEBB 1100

Website: <https://labs.chem.ucsb.edu/zakarian/armen/courses.html>
(no GauchoSpace will be used)

Homework: Homework assignments are listed in the syllabus and/or will be distributed in class. They are not to be turned in.
The answers to all problems are in the Solutions Manual.
There are practice tests at the end of each chapter in the Solutions Manual that might be helpful. The answers are in the back of the Solutions Manual.

BRING A PICTURE ID TO ALL MIDTERMS AND EXAMS

Midterms: **Friday, October 14**
Wednesday, November 2
Monday, November 21

Final Exam: **Wednesday, December 7, 8:00 – 11 am, room WEBB 1100 (same room)**

One midterm with the lowest score will be dropped. If there is **any reason** that you are unable to take a midterm, that one will be your "drop." In cases where your attendance is **required** at a University-sponsored event (e.g., field trips, intercollegiate athletic events, etc.), your required absence on the day of the scheduled midterm must be verified by a letter from your professor or coach that include their contact information.

THERE WILL BE NO MAKEUP MIDTERMS OR FINALS

Grading:

Final	300 points
Midterms	100 points each

Total max.	500
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A	85-100%
B	75-84.9%
C	60-74.9%
D	45-59.9%

Office Hours: **Wednesday, Friday, 2:00-2:45 pm**

Office: Chemistry, Room 2217

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Phone: 893-3327

1. Homework Problems are not graded but are required for success. They are strongly recommended, some may appear in graded tests.
2. Complete answers to all the problems are in the Solutions Manual.
3. Each chapter contains at least one box labeled "Problem-Solving Strategy"; the problem that follows it allows you to try the strategy. Pay close attention to these.

Chapter 20	The Organic Chemistry of Carbohydrates Sections 20.1 - 20.12, 20.14 – 20.18 Problems 1 - 33 Representative end-of-chapter problems 34-38, 40, 48, 49
Chapter 21	Amino Acids, Peptides, Proteins Sections 21.1 - 21.17 Problems 1-48 Representative end-of-chapter problems 49-56, 58-63
Chapter 22	Catalysis in Organic Reactions and Enzymatic Reactions Sections 22.1 - 22.9, 22.10, 22.12 Problems 1 - 17 Representative end-of-chapter problems 29-36, 38-46
Chapter 23	The Organic Chemistry of Coenzymes, Vitamins Sections 23.1 - 23.8 Problems 1 - 23 End-of-chapter problems 24-38
Chapter 24	The Organic Chemistry of the Metabolic Pathways Sections 24.1 - 24.10 Problems 1 - 21 End-of-chapter problems 25-54
Chapter 25	The Organic Chemistry of Lipids Sections 25.1 - 25.10 (tbd) Problems 1 - 30 End of chapter problems 31-49
Chapter 26	The Chemistry of Nucleic Acids Sections 26.1 - 26.13 Problems 1 - 17 End-of-chapter problems 18 - 30

Optional reading for general education: **Chapter 27**, Synthetic Polymers