

NYU Tel Aviv
CHEM-UA 9226
Organic Chemistry II

Instructor Information

- Professor Assaf Friedler
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- Office Hours: by appointment

Course Information

- CHEM-UA 9226
- Organic Chemistry II
- A weekly lecture, lab, classwork and homework. The lab will be given at Tel Aviv University. Prof. Micha Fridman (mfridman@post.tau.ac.il) is in charge of the lab.
- Prerequisites: Genreal Chemistry, Organic Chemistry I
- Wednesdays, 4:30-7:30pm
- NYUTA Academic Center, 17 Brandeis Street, Room 104

Course Requirements

Grading of Assignments

The grade for this course will be determined according to the following formula:

Assignments/Activities	% of Final Grade
Midterm 1	15%
Midterm 2	15%
Final Exam	40%
Lab	30%

Failure to submit or fulfill any one of the required course component results in failure of the class.

Letter Grades

Letter grades for the entire course will be assigned as follows:

Letter Grade	Percent
A	94-100%
A-	90-93%
B+	87-89%
B	84-86%
B-	80-83%
C+	77-79%
C	74-76%
C-	70-73%
D+	67-69%
D	65-66%
F	below 65%

Course Schedule

Topics and Assignments

Week/Date	Topic	Assignment Due
Feb. 6	Resonance and dienes (chapter 12)	
Feb. 13	Conjugation and Aromaticity (chapter 13)	
Feb. 20	Aromatic substitution (chapter 14)	
Feb. 27		Midterm exam I

Week/Date	Topic	Assignment Due
Feb. 28 (Thurs.)	Carbonyls 1 – introduction, addition to carbonyl compounds (chapter 16)	
Mar. 14 (Thurs.)	Carboxylic acids and their derivatives (chapters 17, 18)	
Mar. 27	Carbonyls 2 – reactions at the alpha carbon (chapter 19)	
Apr. 3	Carbohydrates (chapter 22)	
Apr. 10		Midterm exam II
Apr. 17	Carbonyls 3 – condensation reactions	
May 2 (Thurs.)	Amino acids, peptides and proteins (chapter 23) Orbital symmetry (chapter 20)	
May 5 (Sun.)	Summary – questions and answers session - preparing for the final exam	
May 15	Final exam	

Course Materials

Required Textbooks & Materials

Organic Chemistry, 4th Edition, Jones and Fleming (ISBN 978-0-393-93149-5)
 Organic Chemistry, 6th or 7th edition, by Paula Yurkanis Bruice (ISBN 13: 978-0-321-85310-3, ISBN-10: 0-321-85310-5)

Optional Textbooks & Materials

N/A

Resources

- **Access your course materials:** [NYU Classes](http://nyu.edu/its/classes) (nyu.edu/its/classes)
- **Databases, journal articles, and more:** [Bobst Library](http://library.nyu.edu) (library.nyu.edu)
- **Assistance with strengthening your writing:** [NYU Writing Center](http://nyu.mywconline.com) (nyu.mywconline.com)
- **Obtain 24/7 technology assistance:** [IT Help Desk](http://nyu.edu/it/servicedesk) (nyu.edu/it/servicedesk)

Course Policies

Attendance and Tardiness

Study abroad at Global Academic Centers is an academically intensive and immersive experience, in which students from a wide range of backgrounds exchange ideas in discussion-based seminars. Learning in such an environment depends on the active participation of all students. And since classes typically meet once or twice a week, even a single absence can cause a student to miss a significant portion of a course. To ensure the integrity of this academic experience, class attendance at the centers is mandatory, and **unexcused absences will be penalized with a two percent deduction from the student's final course grade**. Students are responsible for making up any work missed due to absence. Repeated absences in a course may result in failure.

All medical-based absence requests **MUST** be presented to the Manager of Student Life and Housing (MSLH). In the case of illness, contact the MSLH within seven (7) days of the absence or as soon as practicable and provide medical documentation. Non-medical requests should be made to the Assistant Director for Academics (AD/Academics) and in advance of the intended absence. Your instructors will be informed of any excused absence; they are not authorized to approve your absence, and they are required to report any absences to the AD/Academics.

NYU Policy on Religious Holidays

- Students who anticipate being absent because of any religious observance should, whenever possible, notify faculty and the AD/Academics in advance of such anticipated absence.
- Whenever feasible, examinations and assignment deadlines should not be scheduled on religious holidays. Any student absent from class because of his/her religious beliefs shall not be penalized for any class, examination, or assignment deadline missed on that day or days. In the event that examinations or assignment deadlines are scheduled on a religious holiday, any student who is unable to attend class shall be permitted the opportunity to make up any examination or to extend any assignment deadline missed on that day or days.
- No adverse or prejudicial effects shall result to any student who avails him/ herself of the provisions of the resolution.
- A violation of these policies and principles shall permit any aggrieved student to bring forward a grievance, provided under the University Grievance Procedure.

Late Assignments

All works must be submitted on time unless you have received an explicit extension. Any late submission may result in grade deduction at the sole discretion of the instructor.

Academic Honesty/Plagiarism

Plagiarism is the presentation of another person's words, ideas, judgment, images or data as though they were your own, whether intentionally or unintentionally. Plagiarism constitutes an academic offence for which you can be disciplined. Punishment may include a failing grade, suspension or expulsion. In all confirmed cases, a report will be sent to the student's Dean at NYU or, in the case of a non-NYU student, to the home institution.

Disability Disclosure Statement

Academic accommodations are available for students with disabilities. Please contact the Moses Center for Students with Disabilities (212-998-4980 or mosescsd@nyu.edu) for further information. Students who are requesting academic accommodations are advised to reach out to the Moses Center as early as possible in the semester for assistance.

Instructor Bio

Prof. Assaf Friedler, the Vice-Rector of the Hebrew University of Jerusalem, was born in Israel in 1971. He received his Ph.D in peptide chemistry and medicinal chemistry from the Hebrew University of Jerusalem, Israel, in 2000. Between 2000-2004 he did his post-doc in the field of biophysical studies of protein-protein interactions at the MRC centre for protein engineering Cambridge, UK, in the lab of Prof. Sir Alan Fersht. In 2004 he joined the institute of chemistry at the Hebrew University of Jerusalem, Israel. Since 2010 he is Professor of Chemistry at the Hebrew University. Between 2010-2015 he was the head of the school of chemistry at the Hebrew University. Since 2015 he is the chairman of the student admission committee of the university and in 2016 was appointed as the Vice-Rector of the Hebrew University. His major research interests are using peptides to study protein-protein interactions in health and disease, and developing peptides as drugs that modulate these interactions (<http://chem.ch.huji.ac.il/~assaf/>). Of particular interests are intrinsically disordered proteins and how to make them drug targets. Prof. Friedler won a starting grant from the ERC (European Research Council) as well as the outstanding young scientist prize by the Israeli Chemical Society. In 2012 he won the Rector prize for an excellent teacher and researcher at the Hebrew University and in 2015 he won the Sir Zelman Cowen Universities funds prize. Assaf is teaching organic chemistry in NYU Tel Aviv since 2014.