

Fall 2018

CHEM 243-101: Organic Chemistry I

Ara Kahyaoglu

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Chemistry: *Fall 2018 Course Syllabus*

NJIT Academic Integrity Code: All Students should be aware that the Department of Chemistry & Environmental Science (CES) takes the University Code on Academic Integrity at NJIT very seriously and enforces it strictly. This means that there must not be any forms of plagiarism, i.e., copying of homework, class projects, or lab assignments, or any form of cheating in quizzes and exams. Under the University Code on Academic Integrity, students are obligated to report any such activities to the Instructor.

COURSE INFORMATION

Course Description: The course presents key principles of organic chemistry in the context of fundamental reasoning and problem solving. It gives to students a contemporary overview of organic principles and the tools for organizing and understanding reaction mechanisms and synthetic organic chemistry.

Number of Credits: 3 credits

Prerequisites: General Chemistry I and II

Course-Section and Instructors

| Course-Section | Instructor |
|----------------|-------------------|
| CHEM243-101 | Dr. Ara Kahyaoglu |

Office Hours for All Chemistry & Environmental Science Instructors:

Office Hours: **By appointments**

email: baydar59@njit.edu

Required Textbook:

| | |
|------------------|---------------------|
| Title | Organic Chemistry I |
| Author | Wade and Simek |
| Edition | 9th |
| Publisher | Pearson |
| ISBN # | 9780134160382 |

University-wide Withdrawal Date: The last day to withdraw with a W is Monday, November 12, 2018. It will be strictly enforced.

Learning Outcomes: The students will be able to write resonance structures, understand the reaction mechanisms and learn some important characteristics of the organic functional groups

POLICIES

All CES students must familiarize themselves with, and adhere to, all official university-wide student policies. CES takes these policies very seriously and enforces them strictly.

Grading Policy: The final grade in this course will be determined as follows:

| | |
|------------|-----|
| Exam I | 25% |
| Exam II | 25% |
| Exam III | 25% |
| Final Exam | 25% |

| | |
|-------------------|------------------------|
| Final Exam Period | December 15 - 21, 2018 |
|-------------------|------------------------|

Your final letter grade in this course will be based on the following tentative curve:

| | | | |
|----|--------|---|-------|
| A | 90-100 | C | 74-70 |
| B+ | 89-85 | D | 69-65 |
| B | 84-80 | F | < 65 |
| C+ | 79-75 | | |

Attendance Policy: Attendance at classes will be recorded and is **mandatory**. Each class is a learning experience that cannot be replicated through simply “getting the notes.”

Homework Policy: Homework is an expectation of the course. The homework problems set by the instructor. The homework problems will be solved the following week during lecture.

The final exam will test your knowledge of all the course material taught in the entire course.

Makeup Exam Policy: There will normally be **NO MAKE-UP QUIZZES OR EXAMS** during the semester. In the event that a student has a legitimate reason for missing a quiz or exam, the student should contact the Dean of Students office and present written verifiable proof of the reason for missing the exam, e.g., a doctor’s note, police report, court notice, etc. clearly stating the date AND time of the mitigating problem. The student must also notify the CES Department Office/Instructor that the exam will be missed so that appropriate steps can be taken to make up the grade.

Cellular Phones: All cellular phones and other electronic devices must be switched off during all class times. Such devices must be stowed in bags during exams or quizzes.

ADDITIONAL RESOURCES

Chemistry Tutoring Center: Located in the Central King Building, Lower Level, Rm. G12. Hours of operation are Monday - Friday 10:00 am - 6:00 pm. For further information please click [here](#).

Accommodation of Disabilities: Office of Accessibility Resources and Services (*formerly known as Disability Support Services*) offers long term and temporary accommodations for undergraduate, graduate and visiting students at NJIT.

If you are in need of accommodations due to a disability please contact Chantonette Lyles, Associate Director at the Office of Accessibility Resources and Services at [973-596-5417](tel:973-596-5417) or via email at lyles@njit.edu. The office is located in Fenster Hall Room 260. A Letter of Accommodation Eligibility from the Office of Accessibility Resources Services office authorizing your accommodations will be required.

For further information regarding self-identification, the submission of medical documentation and additional support services provided please visit the Accessibility Resources and Services (OARS) website at:

- <http://www5.njit.edu/studentsuccess/disability-support-services/>

Important Dates (See: [Fall 2018 Academic Calendar, Registrar](#))

| Date | Day | Event |
|------------------------|--------|--|
| September 4, 2018 | T | First Day of Classes |
| September 10, 2018 | M | Last Day to Add/Drop Classes |
| November 12, 2018 | M | Last Day to Withdraw |
| November 20, 2018 | T | Thursday Classes Meet |
| November 21, 2018 | W | Friday Classes Meet |
| November 22 - 25, 2018 | R - Su | Thanksgiving Break - University Closed |
| December 12, 2018 | W | Last Day of Classes |
| December 14, 2018 | F | Reading Day |
| December 15 - 21, 2018 | F - R | Final Exam Period |

Course Outline

| Week | Section | Topic | Assignment (on Moodle) |
|------|-------------------------|---|---------------------------|
| 1 | Chapter 1 | Structure and Bonding | |
| 2 | Chapter 2 | Acids and Bases: Functional Groups | |
| 3 | Chapter 3 | Structures and Stereochemistry of Alkanes | |
| 4 | Exam I / Chapter 4 | The study of Chemical reactions | |
| 5 | Chapter 4 / Chapter 5 | Stereochemistry | |
| 6 | Chapter 5 / Chapter 6 | Alkyl halides, Nucleophilic substitutions | |
| 7 | EXAM II | | |
| 8 | Chapter 7 | Structure and synthesis of alkenes: Elimination | |
| 9 | Chapter 7 / Chapter 8 | Reactions of Alkenes | |
| 10 | Chapter 8 / Chapter 9 | Alkynes | |
| 11 | EXAM III | | |
| 12 | Chapter 10 | Structure and Synthesis of Alcohols | |
| 13 | Chapter 10 / Chapter 11 | Reactions of alcohols | |
| 14 | Chapter 12 | IR and MS | |
| 15 | FINAL EXAM | Cumulative | |

