

**CHEMISTRY 211 - Organic Chemistry I – Dr. Tarek Ghaddar**  
**Course Syllabus**

**Instructor:** Dr. Tarek Ghaddar

Office: Chemistry 428 Phone: 4057

Office Hours: Posted on Office Door or by appointment.

***"If you have documented special needs and anticipate difficulties with the content or format of the course due to a physical or learning disability, please contact me and/or your academic advisor, as well as the Counseling Center in the Office of Student Affairs (Ext. 3196), as soon as possible to discuss options for accommodations. Those seeking accommodations must submit the Special Needs Support Request Form along with the required documentation."***

**Course Goal:**

The overall objective is for the student to master the nomenclature, structure, synthesis, and reactions of the principal classes of organic compounds. The secondary objective of this course is to increase the students knowledge of the involvement of organic chemistry in everyday life, prepare the students for GRE, MCAT, and upper level organic courses.

**Organic Chemistry I, Learning Outcomes**

The student should be able to:

- i. Recognize the importance of organic chemistry in our daily life.
- ii. Explain different types of strains and conformations of organic compounds.
- iii. Give examples illustrating the principles of stereochemistry.
- iv. Differentiate between the different mechanisms of nucleophilic substitution reaction.
- v. Outline the mechanisms of elimination and addition reactions.
- vi. Discuss aromaticity and electrophilic aromatic substitution reaction.
- vii. Analyze synthetic organic reaction mechanisms.

**Textbook:**

Francis A. Carey, **Organic Chemistry, Part A**, 10<sup>th</sup> ed.

**Tentative Lecture Outline:**

**Week Subjects Covered Chapter**

1 Introduction, Chemical Bonding, and Lewis Structur.....	1
2 Hydrocarbon.....	2
3 Alkanes Conformation.....	3
4 Chirality .....	4
5 Alcohols and Alkyl halides.....	5

6 Nucleophilic Substitution .....	6
7 preparation of Alkenes.....	7
8 Reactions of Alkenes.....	8
9 Alkynes .....	9
10 free radicals.....	10
11 Conjugation in Alkadienes and Allylic systems .....	11
12 Aromaticity .....	12
13 Electrophilic Aromatic Reactions .....	13

### **Grading:**

There will be two quizzes (2x25%) and a Final (40%). **NO MAKE-UP EXAMS OR QUIZZES** will be given except in prearranged, extraordinary circumstances . In case you are sick, you have to report to the AUB infirmary within 48 hours and get a letter from them about your condition with the appropriate doctor's signature.

### **Policy:**

#### **General:**

In order to do well in chemistry, you must put in time, and sweat:

1-Students that expect to succeed in this class must spend at least 12 hours each week studying.

2-Do the problem assignments.

3-Read your textbook BEFORE class discussion and that the assigned problems at the end of the chapters will be worked.

4- A good point to remember as we begin our study is that chemistry requires a cumulative knowledge of the structures and relations discussed or read about in previous sections: therefore, your exams will ALWAYS BE CUMULATIVE.

I will not formally lecture on all the topics in the textbook, for that would be impossible in the time allotted, but I will expect you to read and study all assigned sections. It is expected that you will devote a portion of your study time in the further pursuit of topics of interest to you.

#### **Class Attendance:**

Class begins at 9:30 sharp and I expect you to be on time. Any student who wanders into class late and interrupts will be asked to leave the room.

#### **Classroom Behavior:**

All cell phones, beepers, and pagers are to be Turned Off while you are in class. If your cell phone, pager, or beeper goes off in class you will immediately be asked to leave the class (no exceptions) and will not be allowed to return to the class that day. If you actually answer your cell phone in class you will be asked to leave the class and will not be allowed to return until you have met with the Dean.

If you sleep in class, put your head down on the desk while the instructor is presenting material, yawn in an obvious and disruptive manner, or otherwise disrupt the class you will be given one warning and, if the behavior is repeated, be asked to leave the class for the day. If you cannot stay awake in class it is suggested that you go home and get some sleep.

I do not feel that having a drink in class is normally a problem; students may bring soft drinks or water to class. Eating food in class is **Not Allowed**.

### **Harassment and Discrimination**

AUB is committed to facilitating a learning environment that is free of all forms of prohibited discrimination. The University's non-discrimination policy and Title IX apply to, and protect, all students, faculty, and staff. Under Title IX, discrimination based on sex and gender, including sexual harassment, is prohibited. If you think you have experienced discrimination or harassment, including sexual misconduct, we encourage you to tell someone promptly. If you speak to a faculty or staff member about an issue such as harassment, sexual violence, or discrimination, the information will be kept as private as possible, however, faculty and designated staff are required to bring it to the attention of the University's Title IX Coordinator. Faculty can refer you to fully confidential resources, and you can find information and contacts at [www.aub.edu.lb/titleix](http://www.aub.edu.lb/titleix). To report an incident, contact the University's Title IX Coordinator Trudi Hodges at 01-350000 ext. 2514, 03-595525, or [titleix@aub.edu.lb](mailto:titleix@aub.edu.lb) Confidential reports may be submitted anonymously online through EthicsPoint at [www.aub.ethicspoint.com](http://www.aub.ethicspoint.com).