Philadelphia University
Faculty of Science
Department of Basic Sciences
First Semester, 2017/2018

Course syllabus	
Course Title: Organic Chemistry	**Course code:** 0212243
Course level: 2nd	**Course prerequisite (s) and/or corequisite (s):** General Chemistry 0212101
Lecturetime: Sun.,Tuse.,Thur.: 9:10-10:00	**Credit hours:**3
	Location: 1005

Academic Staff Specifics				
Name	**Rank**	**Office number and location**	**Office hours**	**E-mail address**
Khadeeja Al Abrouni	Lecturer	Nursing building 9212	**10:00-11:00 (Sun-Tue-Thu) 10:30: 11:15 Wed**	kabrouni@philadelphia.edu.jo

Course description (According to the University Catalogue)

This course presents a brief survey of concepts and applications of organic chemistry. Such as, saturated aliphatic cyclic and acyclic hydrocarbon, principles of the IUPAC nomenclature of organic compounds, unsaturated hydrocarbons, halogen compounds. Isomerism and stereoisomerism of organic compounds, alcohol and ethers aldehydes and ketones, amines ,amino acids and proteins.

Course objectives:

Devote a significant portion to structure and naming of organic compounds and then cover the preparation methods and reactions of the various organic functional groups with a brief discussion of reactions mechanisms.

Course/ resources

- **Text book/ books (title , author (s), publisher, year of publication)**
  Title: Organic Chemistry, A Short Coures, 12th edition
  Author: Har, Carine, Hart and Hadad
  Publisher: Houghton and Mifflin, Boston, 2003
  ISBN: ----------
- **Support material (s): -----**
- **Study guide (s) (when applicable) : -----**
- **Laboratory Handbook/ books (when applicable):----------**

Teaching methods

Lectures, discussion groups, tutorials, problem solving, etc.

Learning outcomes:

- **Knowledge and understanding**

Upon completion of this course students will be able to:

- Have an understanding of organic chemistry principles.
- Understand electronic structure of the basic organic groups including the most common functional groups.
- Understand the common organic reactions and their mechanisms.
- Study the main bioorganic compounds and their major role in daily life.

- **Cognitive skills (thinking and analysis).**
  - Identifying and solving organic chemistry problems.
  - Handle the naming of the organic molecules.
  - Differentiating between organic functional groups.

- **Communication skills (personal and academic).**
  - Develop, interpret, and express ideas through written communication(home works)
  - Improve general performance for student through the interaction with each other in solving different chemical problems (social media)

- **Transferable Skills.**
  - To generalize the informative skills gained in this course and to apply them in more advanced courses and throughout ones career.
  - possess initiative in problem solving

- **Psychomotor Skills (When applicable) : -----**

Assessment instruments

- Exams (First, Second and Final Exams)
- Quizzes.
- Homework assignments

Allocation of Marks	
Assessment Instruments	**Mark**
First examination	**20**
Second examination	**20**
Final examination: 40 marks	**40**
Quizzes, homework.	**20**
Total	**100**

Documentation and academic honesty

- **Documentation style (with illustrative examples)**
  Submit your homework covered with a sheet containing your name, number, course title number, and number of the home work (e.g. assignment).Any completed homework must be handed in to my office (room 9212) by. After the deadline “zero” will be awarded. You must keep a duplicate copy of your work because it may be needed while the original is being marked.

- **Protection by copyright**
  Students should realize that some published information or data are the property of their authors and they are not allowed to use it without asking permission from the originators.

- **Avoiding plagiarism.**
  Plagiarism is the unauthorized use or close imitation of the language and thoughts of another author and the representation of them as one's own original work, without proper acknowledgment of the author or the source. Students must pursue their studies honestly and ethically in accordance with the academic regulations. Cheating in exams and plagiarism are totally unacceptable and those who, intentionally, commit such acts would be subjected for penalties according to the University regulations.

Course/module academic calendar

Week	Basic and support material to be covered
(1), (2)	Bonding and molecular structure Alkane and Cycloalkanes
(3), (4)	Alkenes & alkynes, structure and nomenclature
(5), (6)	Aromatic Compounds
(7) **First exam**	Stereochemistry
(8), (9)	Organic Halogen Compounds Substitution and Elimination Reactions
(10), (11)	Alcohols, phenols &ethers Aldehydes and Ketones
(12) **Second exam**	Carboxylic Acids
(13), (14)	Heterocyclic Compounds
(15), (16) **Final exam**	Amines, amino acids and proteins

Expected workload:
On average students need to spend 2 hours of study and preparation for each 50-minute lecture/tutorial.

Attendance policy:
Absence from lectures and/or tutorials shall not exceed 15% (8 hours). Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Other Education Resources

Books

Title: *Organic Chemistry*
Author: John E. McMurry
Edition: 8th edition (**2012**)

Title: *Organic Chemistry*
Author: Graham Solomons
Edition: 9th edition (**2008**)

Journals: ---

Websites:

- **https://www.khanacademy.org/science/organicchemistry**
- **http://antoine.frostburg.edu/chem/senese/101/slides.shtml**