

جامعة كل العرب

Faculty : Pharmacy
Department : Clinical Nutrition and Dietetics
Academic Year : 2020-2021
Semester : Second

(Course Syllabus)

Subject Name	Credit Hours	Course No.	Prerequisite	Concurrent course
Organic Chemistry	3	908120	1501130 General Chemistry 1	-----

Coordinator Name	Lecturer/s	Room No.	E-mail	Course website	Office Hours
Dr. Adel Ardakani	Dr. Adel Ardakani	4212	ardakani@asu.edu.jo	http://bio.asu.edu.jo/bio/index.jsp	After your lecture

Course description:

This course consider important categories of carbon compounds - including those encountered in nutrition. Focuses on compounds organic structures, interaction mechanisms, synthesis, methods of identification, and its role in nutritional sciences and food production technology.

Course Objectives

Upon successful completion of the course the student will be able to:

1. Demonstrate knowledge of understanding structure and nomenclature of chemical organic compounds including terminology of alkanes, alkenes, alkynes, hydrocarbons and aromatic compounds.
2. Identify and recognize compound characterizations that relate to food nutrients and the human body.
3. Discuss the role of organic chemistry and chemical reactions of food functional properties and the human body.
4. Understand the chemical role of catalysts, enzymes, hormones, organic substances in nutrition and dietetics.
5. Utilize and apply organic chemistry in clinical nutrition and dietetics.
6. Demonstrate the organic chemistry concepts.

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Intended Learning Outcomes

A. Knowledge and understanding:

- A1. Describe the general organic structure
- A2. Describe interaction mechanisms
- A3. Describe the principles organic compound synthesis
- A4. Describe organic compound identification.

B. Subject specific skills:

- B1. To correlate between organic structure and clinical nutrition.
- B2. Knowledge of organic compound and nutritional health
- B3. Identifying the role of organic compounds in clinical nutrition.

C. Cognitive and Intellectual skills:

- C.1. **Lecture notes** based on the course textbook and latest scientific references in organic chemistry.
- C.2. **Problem solving** based on a constructivism method of thinking: The ability understand the organic compound terms.
- C.3 **Critical thinking** identify the role of organic compounds in health and diseases.
- C.4 **Promotion of intrinsic motivation** via encourage efforts in organic compounds identification.

D. Transferable Skills:

- D1. **Constructivism method of knowledge and thinking** : Help students to transfer their skills in organic compounds to the community.
- D2. **Writing skills** : The ability to communicate organic compounds information in different assignment forms.
- D3. **Oral communication skills** : The ability to communicate organic chemistry information in clinical nutrition.
- D4. **Promotion of intrinsic motivation** : Participation and learning organic compounds in nutritional processes.
- D5. **Team work**: involved in group discussions related to basic knowledge of organic groups involvement in clinical nutrition.
- D6. **IT skills**: The ability to apply and use softwares organic compound structures and reactions.
- D7. **Administrative skills**: The ability to commit and respect the regulations and instructions (e.g., Attendance, Online Exam, online assignments, report design, online team communication..)



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Teaching and Learning Methods:

Development of ILOs is promoted through the following teaching and learning methods:

ILOs	Learning Methods	Evaluation Methods
A1-A4	1. Lecture notes based on data show slides and animations.	Electronic online exam / paper work exam (Multiple-choice questions).
B1-B3	1. Assignments 2. Class discussion 3. Team work and group discussion 4. Promotion of intrinsic motivation	Provided assignment form (1-5 marks) 1 mark for each participation Scientific materials to develop the course (1-3 marks).
C1-C4 D1-D7	1. Lecture notes based on data show slides and PowerPoint presentation and white board illustration. 2. Assignments 3. Class discussion 4. Team work and group discussion 5. Promotion of intrinsic motivation	Electronic online exam /paper work exam (Multiple choice questions) Provided assignment form (1-5 marks) 1 mark for each participation

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Course Content:

Week	Date	Lecture number	Topic's Details	Exams/ /quizes/ holidays	Main Reference (chapter)	ILOs achieved
1	28/2/2021	3	Bonding and Isomerism Acids & Bases		Ref: Ch.1	A1,A2, B1,B2, C1,C2
2	07/3/2021	3				
3	14/3/2021	3				
4	21/3/2021	3		Quiz		
5	28/3/2021	3	Alkanes and Cycloalkanes		Ref: Ch.2	A2,A3, A4,B2, B3,C1- C4
6	04/4/2021	3	Alkenes and Alkynes		Ref: Ch.3	
7	11/4/2021	3	Aromatic Compounds		Ref: Ch.4	
8	18/4/2021	3	Stereoisomerism		Ref: Ch.5	
9	25/4/2021	3	Organic halogen compounds	Mid exam	Ref: Ch.6	
10	02/5/2021	3	Alcohols, Phenols, and Thiols Ethers and Epoxides		Ref: Ch.7 Ref: Ch.8	
11	09/5/2021	3	Aldehydes and ketones		Ref: Ch.9	
12	16/5/2021	3	Carboxylic acids and their derivatives		Ref: Ch.10	B1-B3, C2,C3, D1-D7
13	23/5/2021	3	Amines and Related Nitrogen Compounds		Ref: Ch.11	A3,A4, B2, B3,C1- C4
14	30/5/2021	3	Heterocyclic Compounds		Ref: Ch.13	
15	06/6/2021	3	Review			
16	13/6/2021		FINAL EXAM			

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Grade Distribution:

Your course grade will be determined by the following:

Assessment Method	% of Final Grade	Due Date
Exams	85	To be announced by Examination committee
Student activities: quiz	15	To be announced by the course coordinator

Distribution of examination material (may vary depending on material included)

Course Policies:

A- Attendance policies:

Attendance: Mandatory.

First warning – with _____5____ absences

Last warning – with _____7____ absences

Failing in the subject – with _____8____ absences

B- Absences from exams and handing in assignments on time:

Will result in zero achievement unless health report or other significant excuse is documented.

C- Health and safety procedures: N/A

D- Honesty policy regarding cheating, plagiarism, misbehavior:

The participation, the commitment of cheating will lead to applying all following penalties together

1. Failing the subject he/she cheated at
2. Failing the other subjects taken in the same course
3. Not allowed to register for the next semester.
4. The summer semester is not considered as a semester

E- Grading policy:

Exams and Activities.

Quiz: _____15____ points

Mid Exam _____35____ points

Final Exam: _____50____ points

Total: _____100____ points

F- Available university services that support achievement in the course:

Required equipment: Data show, internet connection, and whiteboard.

Make-up Exam Policy: Make-up exams will be offered for valid reasons. They may be different from regular exams, both in content and format.

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Textbooks information:

Main Reference: Hart, D.J., Hadad, C. M., Craine, L.E. and Hart, H.(2012). Organic chemistry: Ashort course, 13th edition, Cengage learning, US. ISBN-13: 978-1-111-42624-8.

Other Refernces: Bruice, P. Y. (2016). Essential Organic Chemistry, 3rd edition, Pearson Education, England. , ISBN 978-0-321-93771-1,

No side talks during lecture
No mobile phones during lecture
Entering the lecture theatre on time as scheduled.

Homework should be done by students independently and will be asked at the exams

Course Material and Announcements

Students need to use the e-learning page at the ASU website in order to get all lecture hand outs and guidelines that will be uploaded there.

In addition, course related announcements and exam results will be posted on the e-learning page and is the responsibility of each student to check the site regularly.

Name of Course Coordinator: **Dr. Adel Ardakani**
Date: 30-3-2021

Signature:

د. عادل أردكاني

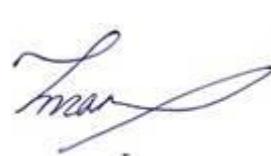
Head of curriculum committee: **Dr. Reem Abutayeh** Signature:

د. ريم ابوتايه

Head of Department: Sofyan Maghaydah

Signature:



Dean:  Signature:

Copy to:

Head of Department
Head of curriculum committee
Course File

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Date:

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