



Jordan University of Science and Technology
Faculty of Pharmacy
Pharmacy Department

PHAR124 Pharmaceutical Organic Chemistry - JNQF Level: 6

First Semester 2023-2024

Course Catalog

3 Credit Hours. This course is designed to provide students with a foundation in organic chemistry. Topics include an overview of organic functional groups with emphasis on the physicochemical properties of biological importance. Besides, the course covers essential subjects in organic chemistry, including resonance, aromaticity, acidity, basicity, and stereochemistry of organic compounds. Chemistry of aliphatic and aromatic heterocycles will be included throughout the course.

Text Book

Title	Organic Chemistry
Author(s)	Harold Hart, Leslie Craine, David Hart and C. Hadad
Edition	14th Edition
Short Name	Ref #1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Organic Chemistry	Paula Yurkanis Bruice	9th Edition	

Instructor

Name	Dr. Buthina Al-Oudat
Office Location	P1 L1
Office Hours	Sun : 11:00 - 13:00 Mon : 09:00 - 10:00 Tue : 11:00 - 13:00 Thu : 11:00 - 12:00
Email	baoudat@just.edu.jo

Class Schedule & Room

Section 2:
Lecture Time: Sun, Tue, Thu : 08:30 - 09:30
Room: P1101

Section 3:
Lecture Time: Sun, Tue, Thu : 09:30 - 10:30
Room: D4203

Prerequisites

Line Number	Course Name	Prerequisite Type
911031	CHEM103 General Chemistry	Prerequisite / Study
821036	HSS103CHEM General Chemistry	Prerequisite / Study

Tentative List of Topics Covered

Weeks	Topic	References
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Weeks 1, 2	Bonding and Isomerism	From Ref #1
Weeks 2, 3	Alkanes and Cycloalkanes	From Ref #1
Weeks 4, 5	Alkenes and Alkynes	From Ref #1
Week 6	Aromatic Compounds	From Ref #1
Weeks 7, 8, 9	Organic Acids and Bases	From Ref #1
Week 10	Stereoisomerism	From Ref #1
Weeks 11, 12, 13, 14	Selected Organic Functional Groups	From Ref #1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Discuss several aspects related to organic functional groups including their nomenclature, structures, properties, and reactions. [1PLO1.1, 1PLO3.1] [1L6K1, 1L6K2]	30%	First Exam, Active Learning, Final Exam
Illustrate the concepts of chemical bonding, electron delocalization, and aromaticity. [1PLO1.1, 1PLO3.1] [1L6K1, 1L6K2]	25%	First Exam, Second Exam, Final Exam
Illustrate the concepts of organic acids and bases. [1PLO1.1, 1PLO3.1] [1L6K1, 1L6K2]	25%	Second Exam, Active Learning, Final Exam
Analyze 3D structure of organic molecules [1PLO1.1, 1PLO3.1] [1L6K1, 1L6K2]	20%	First Exam, Final Exam

Relationship to Program Student Outcomes (Out of 100%)															
PLO1.1	PLO2.1	PLO3.2	PLO3.3	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1
50							50								

Relationship to NQF Outcomes (Out of 100%)	
L6K1	L6K2
50	50

Evaluation	
Assessment Tool	Weight
First Exam	30%
Second Exam	25%
Active Learning	5%
Final Exam	40%

Policy

Course Policy	<p>Communicating with Instructors:</p> <ul style="list-style-type: none"> - Students should communicate through their official JUST emails. Communication through personal email accounts (yahoo, Gmail, Hotmail, etc.) or social media will NOT be accepted, and no response will be provided. - Students are required to check their emails and the E-learning page of the course regularly for announcements and notifications. <p>Exams</p> <ul style="list-style-type: none"> - All exams are closed books and notes. - The final exam is comprehensive (covers all the material). - The first, second, and midterm incomplete exams need approval from the departments heads. - The final incomplete exams need approval from the dean. <p>Cheating</p> <p>-Prohibited; The commitment of the acts of cheating and deceit such as copying during examinations, altering examinations for re-grade, plagiarism of homework assignments, and in any way representing the work of others as your own is dishonest and will not be tolerated. Standard JUST policy will be applied.</p> <p>المادة 7: إذا ضبط الطالب أثناء الامتحان أو الاختبار متلبساً بالغش فتوقع عليه العقوبات التالية مجتمعة:</p> <p>أ- اعتباره راسباً في ذلك الامتحان أو الاختبار.</p> <p>ب- الغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل.</p> <p>ج- فصله من الجامعة لمدة فصل دراسي واحد، و هو الفصل التالي للفصل الذي ضبط فيه.</p> <p>Attendance</p> <ul style="list-style-type: none"> - Attendance is mandatory and will be recorded regularly. - Excellent attendance is expected. - Students who miss more than 20% of the classes will be dropped from the course as per JUST policy. - If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed. <p>Active learning and students? participation</p> <ul style="list-style-type: none"> - Students are expected to actively participate in class discussions. <p>Withdraw</p> <ul style="list-style-type: none"> - Last day to drop the course is before the twelve (12th) week of the current semester
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