



**Jordan University of Science and Technology**  
**Faculty of Science & Arts**  
**Chemistry Department**

CHEM217 Organic Chemistry

Summer Semester 2019-2020

**Course Catalog**

3 Credit Hours. This course aims to teach students the basic principles of organic chemistry. The first part of the course will cover the fundamental aspects of structural organic chemistry to familiarize the students the main families of organic chemistry functions as well as the 3D structure of organic molecules. The basics of reactivity will also covered using the mechanisms. The course will be frequently illustrated will examples linked to other scientific disciplines, in particular to the field of life sciences.

**Text Book**

<b>Title</b>	Organic Chemistry
<b>Author(s)</b>	Harold Hart, Leslie Craine, David Hart and C. Hadad.
<b>Edition</b>	10th Edition
<b>Short Name</b>	Ref#1
<b>Other Information</b>	

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<b>Class Schedule &amp; Room</b>
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Section 1:

Lecture Time: Sun, Mon, Tue, Wed : 08:30 - 10:00

Room: منصة الكترونية

Section 2:

Lecture Time: Sun, Mon, Tue, Wed : 11:30 - 13:00

Room: منصة الكترونية

Section 3:

Lecture Time: Sun, Mon, Tue, Wed : 10:00 - 11:30

Room: منصة الكترونية

Section 4:

Lecture Time: Sun, Mon, Tue, Wed : 11:30 - 13:00

Room: منصة الكترونية

Section 5:

Lecture Time: Sun, Mon, Tue, Wed : 13:00 - 14:30

Room: منصة الكترونية

Section 6:

Lecture Time: Sun, Mon, Tue, Wed : 14:30 - 16:00

Room: منصة الكترونية

Section 7:

Lecture Time: Sun, Mon, Tue, Wed : 10:00 - 11:30

Room: منصة الكترونية

Section 9:

Lecture Time: Sun, Mon, Tue, Wed : 13:00 - 14:30

Room: منصة الكترونية

### Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Chapter 1 Bonding and Isomerism	
Week 2	chapter 2 Alkanes and Cycloalkanes and Geometric isomerism	
Weeks 3, 4	chapter 3 Alkenes and Alkynes	
Week 5	chapter 4 Aromatic compounds	
Week 6	chapter 5 Stereoisomerism:	
Week 7	chapter 6 Organic Halogen Compounds	
Weeks 8, 9	chapter 7 Alcohols, Phenols, and Thiols	
Week 10	chapter 8 Ethers and Epoxides	
Week 11	chapter 9 Aldehydes and Ketones	
Weeks 12, 13	chapter 10 Carboxylic Acids and their Derivatives	

Week 14	chapter Amines and Related Nitrogen compounds	
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Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand the structural organic chemistry for main families of organic chemistry. [1a, 1b, 1e, 1k]	25%	
Understand the 3D structure of organic molecules. [1a, 1b, 1e, 1k]	25%	
Manipulate the basic of reactivity and the mechanisms. [1a, 1b, 1e, 1k]	25%	
Manipulate the functional groups transformations. [1a, 1b, 1e, 1k]	25%	

Relationship to Program Student Outcomes (Out of 100%)										
a	b	c	d	e	f	g	h	i	j	k
25	25			25						25

Evaluation	
Assessment Tool	Weight
first exam	30%
second	30%
final	40%

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