



**The Hashemite University**  
**Faculty of Science**  
**Course Description**

<b>Department : Chemistry</b>	
<b>Year : 2011/2012</b>	<b>Semester : Second</b>

<b>Course Information</b>			
Course Title	Basics of Medicinal Organic Chemistry		
Course Number	110103237		
Course Credits	3		
Prerequisite(s)			
Course Duration	16 Weeks		
Course Time	<b>Sections 1&amp;3:</b> 12-1Sun. Tue., Thu. <b>Sections 2&amp;4:</b> 11-12:30 Mon. Wed.		
Instructors	Dr. Bader Salameh (Sections 1 & 2)	Dr. Kayed Abu-Safieh (Section 3)	Dr. Abdullah Saleh (Section 4)
Office Location	Chem. 201	Chem. 207	Chem. 202
Office Phone	4126	4499	4739
Office Hours	11-12 alldays	11-12 all days	11:30-1 Tue & Thr
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Course Web Site:			

<b>Text Book</b>	
Title	Organic Chemistry
Authors	Harold Hart, Leslie Craine, Daivid Hart and C. Hadad.
Publisher	Houghton Mifflin Company, Boston U.S.A.
Year	2007
Edition	12 <sup>th</sup> edition.
References(s)	1) Organic Chemistry, 8th ed., By Solomons.(2004) 2) Organic Chemistry, J. McMurry (2004)

<b>Evaluation Policy</b>		
<b>Assessment Type</b>	<b>Expected Date</b>	<b>Weight</b>
First Exam	11-22/3/2012	25%
Second Exam	15-26/4/2012	25%
Final Exam	13-24/5/2012	50%

<b>Course Objectives</b>
<p>The main objective of the course is 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.</p>

### **Teaching and Learning Methods**

<p>The following teaching techniques will be used:  Solved examples to be done traditionally on the board  Overhead transparencies may be used for complex molecules</p>
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<b>Course Contents</b>			
<b>Week</b>	<b>Topics</b>	<b>Chapter Number</b>	<b>Sections excluded</b>
1	<b>Bonding and Isomerism</b>	1	1.17-1.18
2	<b>Alkanes and Cycloalkanes</b>	2	2.13
3,4	<b>Alkenes and Alkynes</b>	3	3.15b-3.16
4,5	<b>Aromatic compounds</b>	4	4.13
5,6	<b>Stereoisomerism</b>	5	-
7	<b>Organic Halogen Compounds</b>	6	6.9
8	<b>Alcohols, Phenols, and Thiols</b>	7	-
9	<b>Ethers and Epoxies</b>	8	8.9
10,11	<b>Aldhydes and Ketones</b>	9	9.14-9.19
12,13	<b>Carboxylic acids</b>	10	10.22
14	<b>Amines</b>	11	11.9