

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Republic of Iraq  
The Ministry Of Higher Education  
& Scientific Research



University: University of Baghdad  
College: College of Science for Women  
Department: Department of chemistry  
Stage: 3<sup>rd</sup> class  
Lecturer name: Assist. Prof.Dr.  
Fayhaa Muqdad Kahleel  
Qualification: Ph.D in Biochemistry  
Place of work College of Science for

## Syllabus Form

Instructor Name	Assist prof. Dr. Fayhaa Muqdad Kahleel
E-mail	<a href="mailto:Fyaha_magdad@yahoo.com">Fyaha_magdad@yahoo.com</a>
Course Title	Biochemistry -1
Course Coordinator	
Course Objectives	1-Study the cell and components ,carbohydrates ,derivatives, types and medical importance. 2-Study the chemistry of ;Lipids types and biological importance.
Course Description	
Textbook	Biochemistry(second edition) Pankaja naik ph. D (2007) Text book of biochemistry ( fourth edition) S.P.Singh Ph.D., F.A.C.B.I Robert.L.Caret Kathering J. Denniston Joseph J.Topping
References	Text book of biochemistry with clinical correlations (Seventh edition) (2010) Thomas M. Devlin Lippincott's Illustrated Reviews :Biochemistry 2 <sup>nd</sup> edition (1994) .

	Pamela C .Champe, ph. .D . Rich A. Harvey , Ph.D.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(20%)	As(12%)	As(5%)	3%	As(60%)
General Notes	Type here general notes regarding the course				

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### Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	NOTES
1	4/10/2015	The cell structure, chemical composition	Molish test, Fehling test, Benedict's test	
2	11/10/2015	Carbohydrate chemistry classification nomenclature	Selwanoff test	
3	18/10/2015	Structure of monosaccharide	Barfoed test	
4	25/10/2015	Isomerism/structural and stereoisomerism	Ozazone test and iodine test	
5	1/11/2015	Chemical properties of monosaccharide	Hydrolysis by acid and solution of starch	
6	8/11/2015	Biological important sugar derivatives monosaccharide	Starch and precipitation	
7	15/11/2015	Oligosaccharide and polysaccharides	Lipids solubility	
8	22/11/2015	Exam	Exam	
9	29/11/2015	Lipid: introduction, classification, biological, function of lipids	The capper acetate test	
10	6/12/2015	Fatty acids, structure, & properties, chemical reactions of fatty acids	Rancidity test	

11	13/12/2015	Ecosanoid; prostaglandins, leukotrien & thromboxane	A caroline and OH hydrolysis	
12	20/12/2015	Triglyceride, neutral glycerides phosphoglyceride & non glycerides lipids	Sapon reaction	
13	27/12/2015	Sphingolipid, steroids, bile acids, sex hormones, vit.D saponines carotenoids & vit.A, complex lipids , lipoproteins	Separation of fatty acids and precipitation	
14	3/1/2015	The structure of biological membranes. membrane transport	Cholesterol reaction, Salkowski test, Liberman test	
15	6/1/2015	Exam	Exam	
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<b>Half – year break</b>				
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**Instructor Signature:**

**Dean Signature:**