

## Yarmouk University

#### Faculty of Medicine



Document Approval Date	Course Sullabus	Document Code
	Course Syllabus	<b>AP</b> 01-PR05

Department: Department of Basic Medical Sciences

Official Stamp:

Course Identification		
Course Name: Biochemistry	Course Code and Number: MED113	
Number of Credit Hours: 3	Semester: Sammer	
Course Status: Facuty requirement Teaching Language: English		
Pre-requisite: BIO111 Course Coordinator: Mazhar Al Zoubi		

	General Information				
Teaching Method	⊠Face-to-Face	☐ Online	☐ Blended		
Course Description	biochemistry by de contents of basic discuss the chemic (Proteins, Carbohi properties and me importance are co	efining, describing medical bioche cal structures an ydrates, and Lip stabolism. Enzym overed as well.	uce medical students to human g and discussing the fundamental smistry. Mainly, the course will d properties of macromolecules sids) as well as their functional les kinetics, behavior, and clinical The third part will focus on the major macromolecules.		
Course Objectives	macromole 2. Discussing function of a Discussing 4. Describing 5. Discussing	ecules in the hun and demonst fenzymes struct the metabolism and explaining t and demonstr	rating the structure, kinetics		
	CLO1: Define, reco	gnize and describules and demons	nts are expected to: be the basic structure of strating some examples by ctional examples.		
Course Learning Outcomes (CLOs)	lipids and the metabolic pa CLO3: Explain the	e mechanism of the state of the	tabolism of carbohydrates and the regulation of these is behind a group of human are related to the defect in the		

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	CLO4: Explains and discuss the mec production at the cellular leve	el.
		stry knowledge with the clinica

	Mapping (	Course Learn	ing Outcomes	CLOs to Progr	ram Learning	Outcomes PL	Os
	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
CLO1	Х						
CLO2	Х	1,11					
CLO3	Х						_
CLO4	Х						•
CLO5	Х	1					





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- 3076		Asse	ssment Methods	100	•
Assessm	ent Type	Date and Time	Assessment Method	Mark (%)	CLOs
Midterm Ex	am	4th week	MCQs	50%	1-3
	Activity (1)	Week 2	Homework assignment	0	1
	Activity (2)	Week 5	Homework assignment	0	2
Activities*	Activity (3)	Week 9	Homework assignment	0	3
Ī	Activity (4)	Week 12	Homework assignment	0	4
Final Exam		8th week	MCQs	50%	1-5

<sup>\*</sup>The instructor must choose at least three activities from the following: quizzes, assignments, projects, videos, discussions, etc.

Course Contents, Schedule, and Instruction Methods			
Week	Course Content	Instruction Method**	
Week 1	Chapter 1: Amino Acids Chapter 2: Structure of Proteins	Lectures	
Week 2	Chapter 3: Globular Proteins Chapter 4: Fibrous Proteins	Lectures	
Week 3	Chapter 5: Enzymes Chapter 6: Bioenergetics and Oxidative Phosphorylation	Lectures	
Week 4	Chapter 7: Introduction to Carbohydrates Chapter 8: Glycolysis	Lectures	
Week 5	Chapter 9: Tricarboxylic Acid Cycle Chapter 10: Gluconeogenesis	Lectures	
Week 6	Chapter 11: Glycogen Metabolism Chapter 13: Pentose Phosphate Pathway and NADPH	Lectures	
Week 7	Chapter 15: Metabolism of Dietary Lipids Chapter 16: Fatty Acid and Triacylglycerol Metabolism	Lectures	
Week 8	Chapter 18: Cholesterol and Steroid Metabolism	Lectures	
	Final Exam Week		

<sup>\*\*</sup>Instruction method is as follows:







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- Face-to-Face course: Face-to-face class
- Online course: Interactive synchronous or asynchronous
- Blended course: Face-to-face or Online (synchronous or asynchronous)

	Main Textbook and References
Main Textbook	Lippincott's Illustrated Reviews: Biochemistry 7th Edition and above,
	Lippincott Williams & Wilkins, a Wolters Kluwer
Other References	

	Policies and Instructions***		
Attendance	Physical attendance is mandatory in this course considering there are 15 % of excused absences.		
Activities	All assignments that are given as activities should be submitted before the due date using an e-learning system		
Late Submission	Late submission will be considered by with deduction of 25% of the grade (if applicable)		
Exams	There are two exams (mid and final) 50% of the total grade will be assigned for each exam. All exam sessions will be held using the electronic system at the IT department and evaluated electronically.		
Cheating and Plagiarism	Cheating and Plagiarism are against the policy of Yarmouk University and the involved students will be subjected to the institutional regulations and laws and the punishment will be applied upon the confirmation of the misconduct.		

<sup>\*\*\*</sup>For more information, please see the student handbook.

