

## Course Description Form

<b>1. Course Name:</b>	
Biochemistry	
<b>2. Course Code:</b>	
CHM102	
<b>3. Semester / Year:</b>	
First Semester / First Year	
<b>4. Description Preparation Date:</b>	
25/02/2024	
<b>5. Available Attendance Forms:</b>	
Attendance only	
<b>6. Number of Credit Hours (Total) / Number of Units (Total)</b>	
75 hours in the semester. 5 hours per week (3 hours theoretical + 2 hours practical)	
<b>7. Course administrator's name (mention all, if more than one name)</b>	
Name: Lec. Sadoun Abbas Alsalimi Email: <a href="mailto:sadoun.alsalimi@uobasrah.edu.iq">sadoun.alsalimi@uobasrah.edu.iq</a>	
<b>8. Course Objectives</b>	
<b>Course Objectives</b>	<ol style="list-style-type: none"><li>1- Define properties and classification of nutrients.</li><li>2- Illustrate biochemical changes of nutrients and its metabolic pathways in human body.</li><li>3- Realize some important body constituents and their chemical changes.</li><li>4- Differentiate the biochemical functions of different human organs in normal and abnormal conditions.</li><li>5- Understand the human biochemical reactions in normal/abnormal situations.</li><li>6- Handle the laboratory equipment properly.</li><li>7- Use laboratory methods for monitoring biochemical reactions in biological samples.</li></ol>

## 9. Teaching and Learning Strategies

<b>Strategy</b>	Brain Storm, Group Discussion, Clinical Conference, Group Projects, Presentations and Laboratory Works.
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## 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	1- Teach the students the structures and roles of the fundamental compounds of biochemistry such as carbohydrates, lipids, proteins and enzymes. 2- Illustrate biochemical changes of nutrients and its metabolic pathways in human body. 3- Understand the human biochemical reactions in normal and abnormal conditions. 4- Developing students' abilities to share ideas. 5- Developing the student's skill and knowledge in dealing with	Carbohydrates 1	Lectures, Group Discussion, Clinical Conference, Group Projects, Presentations and Laboratory Works.	Quizzes, monthly examinations, reports and final examinations.
2	5		Carbohydrates 2		
3	5		Carbohydrates 3		
4	5		Lipids 1		
5	5		Lipids 2		
6	5		Lipids 3		
7	5		Proteins 1		
8	5		Proteins 2		
9	5		Proteins 3		
10	5		Enzymes 1		
11	5		Enzymes 2		
12	5		Liver Test 1		
13	5		Liver Test 2		
14	5		Kidney Test 1		
15	5		Kidney Test 2		

	medical cases that he encounters in the hospital.			
<b>11. Course Evaluation</b>				
Distributing the score out of 100 to: 1- 40 score: for the tasks assigned to the student such as quizzes, monthly exams, and reports. 2- 60 score: for the final exam.				
<b>12. Learning and Teaching Resources</b>				
Required textbooks (curricular books, if any)		Biochemistry for Nursing.		
Main references (sources)		<p>(1) DM Vasudevan, S Sreekumari and K Vaidyanathan. Textbook of Biochemistry for Medical Students (Seventh Edition). Jaypee Brothers Medical Publishers (P) Ltd. 2013.</p> <p>(2) MA Crook. Clinical Biochemistry &amp; Metabolic Medicine (Eighth Edition). Hodder &amp; Stoughton Ltd. 2012.</p> <p>(3) M Lieberman and A Peet. Marks' Basic Medical Biochemistry : A Clinical Approach (Fifth Edition). Wolters Kluwer. 2018.</p>		
Recommended books and references (scientific journals, reports...)		None		
Electronic References, Websites		<a href="https://www.researchgate.net/">https://www.researchgate.net/</a> <a href="https://scholar.google.com/">https://scholar.google.com/</a>		