## Al-Zaytoonah University of Jordan





Course Detailed Description – Procedures of the Course Plan Committee /Faculty of Pharmacy QF02/0408-1.0

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	Department	Pharmacy
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Course Name	Clinical Biochemistry	Course No.	201413
Prerequisite	Pharmaceutical Biochemistry	Credit Hours	2
Number & date of	2011/2010	Brief Description	See form
course plan approval		Brief Description	QF02/0409

(Course Objectives)  (Course Objectives)  (A) Special branch of medicine dealing with measurement and interpretation condition and dynamics in healthy and diseased humans.  (B) branch of chemistry that deals with the composition and measurement of excretions, concretions, and fluids of the human body in health and disease composition of cells and tissues.  (Course Objectives)  (Course Objectives)  (Course Objectives)  (A) Analysis of body fluids, cells and sometimes tissues, together with internally analysis, as well as the knowledge and skills necessary for management of alaboratory.			mans. tion and measurement of the secret dy in health and disease, and the ch physiological and pathological cha sues, together with interpretation o
Course Topics	laboratory.  1. Biochemical investigations in clinical medicine 2. Water, sodium and potassium 3. Hydrogen ion homoeostasis and blood gases 4. The kidneys 5. The liver 6. The gastrointestinal tract 7. The hypothalamus and the pituitary gland 8. The adrenal glands 9. The thyroid gland 10. The gonads 11. Disorders of carbohydrate metabolism 12. Calcium, phosphate and magnesium 13. Plasma proteins and enzymes		
Text Books	14. Lipids, lipoproteins and cardiovascular disease  1- Marks' Basic Medical Biochemistry (Lieberman, Marks's Basic Medical Biochemistry) by Alisa Peet MD, Michael A. Lieberman PhD and Allan Marks MD (Mar 29, 2012)  2- Harper's Illustrated Biochemistry, 29e Robert K. Murray, David A Bender, Kathleen M. Botham, Peter J. Kennelly, Victor W. Rodwell, P. Anthony Weil Copyright © 2012 by The McGraw-Hill Companies, Inc		
References	Clinical Biochemistry: An Illustrated Colour Text, 5e by Allan Gaw MD PhD FRCPath FFPM PGCertMedEd, Michael J. Murphy FRCP Edin FRCPath, Rajeev Srivastava and Robert A. Cowan BSc PhD (Jul 16, 2013)		
Grade Determination	1 <sup>st</sup> Exam=25% 2 <sup>nd</sup> Exam=25% Final Exam= 50%	(Practical Course Grade Determination)	Course Work =50% (Reports, Term Papers, Quizes) Final Exam = 50%

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QF02/0408-1.0

	Course Outline				
Week	Hours	Subjects	Chapters in Textbook	Notes	
2.1	1	Hyponatraemia: pathophysiology Hyponatraemia: assessment and management	Chapter 1		
01	1 1	Hypernatraemia			
02	1 1	Hyperkalaemia Hypokalaemia Investigation of renal function	Chapter 1		
03	1 1 1 1	Urinalysis Acid-base: concepts andvocabulary Acid-base disorders: diagnosis and management	Chapter 1		
04	1 1 1	Proteins and enzymes Immunoglobulins Myocardial infarction	Chapter 1		
05	1 1 1	Liver function tests Jaundice Liver disease	Chapter 1		
06	1 1 1	Glucose metabolism and diabetes mellitus Diagnosis and monitoring ofdiabetes mellitus	Chapter 1		
07	1 1 1	Diabeticketoacidosis Hypoglycaemia	Chapter 1		
08	1 1 1	Calcium regulation and hypocalcaemia Hypercalcaemia	Chapter 1		
09	1 1 1	Phosphate and magnesium Bone disease Osteoporosis	Chapter 1		
10	1 1 1	Endocrine control Dynamic function tests	Chapter 2		
11	1 1	Pituitary function Growth disorders and acromegaly	Chapter 2		

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12	1 1 1	Thyroid pathophysiology Hypothyroidism	Chapter 2
13	1 1 1	Hyperthyroidism Adrenocortical pathophysiology Hypofunction oftheadrenal cortex	Chapter 2
14	1 1 1	Hyperfunction of the adrenal cortex Gonadal function	Chapter 2
15	1 1 1	Lipoprotein metabolism Clinicaldisorders oflipid metabolism Hypertension	Chapter 3
16	1 1 1	Cancer and itsconsequences Hyperuricaemia Skeletal muscle disorders	Chapter 3

Approved by Dept. Chair	Date of Approval	

## Extra Information: (Updated every semester and filled by course instructor)

Course Instructor	
Office No.	
Extension	
Email	
Office hours	