

University of Al-Anbar

College of Pharmacy

Department of Clinical Laboratory Sciences

Title of the course: *Clinical Chemistry* Course number: **514**

Level: 5th Class, 1st Semester

Credit hours: **Theory 3 hours Laboratory 1 hour**

Tutors:

Reference text: *1-Clinical Chemistry & Metabolic Medicine, Crook, Latest edition.*

2- Clinical Chemistry, Kaplan, Latest edition.

Objectives: To exhibit knowledge of human body chemistry levels under healthy and abnormal conditions. At the end of the semester the students should be familiar with the basic and advanced information in clinical laboratory chemistry and how it relates to patient health and care.

No.	Lecture title	hours
1.	Disorders of Carbohydrates metabolism, Hyperglycemia & Diabetes mellitus, Hypoglycemia.	3
2.	Disorders of lipid metabolism.	3
3.	Liver Function Tests.	4
4.	Kidney Function Tests.	4
5	Diagnostic enzymology.	4
6	Hypothalamus & pituitary endocrinology, disorders of anterior pituitary hormones, disorders of adrenal gland, hypopituitarism.	8
7.	Reproductive system, disorders of gonadal function in males & females, biochemical assessment during pregnancy.	5
8.	Tumor markers.	4
9.	Drug interaction with laboratory Tests.	3
10	Disorders of calcium metabolism	3
11.	Acid- Base Disorders.	4