

Jordan University of Science and Technology
Faculty of Veterinary medicine
Department of Veterinary Pathology and Animal Health
Fall Semester 2007

Course Information	
Course Title	Clinical Chemistry
Course Number	665220
Prerequisites	_____
Course Website	_____
Instructor	Dr. Raida Al-Rukibat
Office Location	G1 L3
Office Phone	22008
Office Hours	Tuesday & Thursday 11-1
E-mail	ralrukib@just.edu.jo
Teaching Assistant	_____
Course Description	
To introduce some concepts of the pathophysiology of diseases and laboratory tests that can be used to help in disease diagnosis. To have a solid understanding of how tests are interpreted and a general understanding of how tests are performed..	

Text Book	
Title	Veterinary Laboratory Medicine: Clinical Pathology.
Author(s)	Duncan, Prasse & Mahaffey
Publisher	Iowa State University Press, Ames
Year	1994.
Edition	3 rd
Book Website	_____
References	Kaneko. Clinical Biochemistry of Domestic Animals. 4 th ed. 1989.

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam	6 th week	20%
Second Exam	12 th week	20%
Final Exam	Announced by registration office	40%
Assignments	_____	20%

Course Objectives		Weights
1.Choose appropriate tests for dogs, cats, horses and ruminant to evaluate the hepatobiliary system, urinary system, digestive system, water-electrolytes & acid base status, muscle and endocrine organs.		
2. Identify and interpret significant abnormal values by localizing alterations to the correct organ (s)/ tissue(s) and describing pathologic mechanism leading to such biochemistry changes.		
3.Suggest appropriate disease differentials for any identified abnormalities and make recommendations for subsequent testing		

Teaching & Learning Methods
Lectures, home works, assignments and practical sessions.

Useful Resources
internet

Course Content		
Week	Topics	Chapter in Text (handouts)
1	Introduction	
2	Urinary system I	9
3	Urinary system II	9
4	Electrolytes/acid-base	5
5	Acid-base II	5
6	Hepatobiliary system I	7
7	Hepatobiliary system II	7
8	Hepatobiliary system III	7
9	Pancreas I	11
10	Pancreas II	11
11	Muscle	10
12	protein	6
13	Endocrine System I	11
14	Endocrine System II	11
15	Review	
16/17	Final exam	