

Jordan University of Science and Technology
Faculty of Veterinary medicine
Department of Veterinary Pathology and Public Health
VM 357
Fall Semester 2016

Course Information	
Course Title	Hematopathology laboratory
Course Number	VM 357
Prerequisites	Vm vm 355
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	

Text Book	
Title	Veterinary Laboratory Medicine: Clinical Pathology.
Author(s)	Duncan, Prasse & Mahaffey
Publisher	Iowa State University Press, Ames
Year	1994 , 2010
Edition	3 rd
Book Website	-----
References	

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam	6 th week	25%
Second Exam	12 th week	25%
Final Exam	Announced by registration office	40%
Assignments /participation	-----	10%

Course Objectives	Percentage
Given an bone marrow specimen: Define the following: effective erythropoiesis, ineffective erythropoiesis, effective granulopoiesis, ineffective granulopoiesis, pure red cell aplasia, aplastic anemia, agranulocytosis, myelofibrosis, myelitis, myelophthisis, leukemia, myeloproliferative disease, lymphoproliferative disease, acute leukemia, chronic leukemia, myelodysplastic syndrome.	
Given a stained blood smear: will be able to characterized types and etiology of anemia	
Given a stained blood smear: will be able to differentiate between physiological vs stress vs inflammatory neutrophilia	
Given a stained blood smear: will be able differentiate between leukomoid reaction vs leukemia	
Teaching & Learning Methods	
home works, assignments and practical sessions.	

Useful Resources
Internet

Course Content (Theory)		
Week	Topics	Chapter in Text (handouts)
1	Normal bone marrow	
2	Bone marrows with different pathological conditions	
3	Review of normal erythrocyte morphology in different animal species	
4	Review of normal leukocyte morphology in different animal species	
5	Review of different staining methods	
6	Identify polychromasia VS Reticulocytes	
7	Identify different intra and extracellular blood parasites.	
8	Identification of different types of erythrocytes Poikilocytosis.	
9	For morphologic examination, identify abnormal erythrocytes or erythrocyte inclusions	
10	For morphologic examination, identify abnormal leukocytes or leukocyte inclusions	
11	For morphologic examination, identify abnormal Thrombocytes or thromobcyte inclusions	
12	Review several cases of acute leukemia	
13	Review several cases of chronic leukemia	
14	Review	
15	Final exam	