Jordan University of Science and Technology
Faculty of Medicine
Department of Veterinary Pathology & Public Health
Fall Semester 2016
Course Syllabus

Course Information	
Course Title	Veterinary hematology
Course Code	VM 355
Prerequisites	Vm 224, Vm 225
Course Website	http://elearning.just.edu.jo/
Instructor	Dr. Raida Karim Al-Rukibat
Office Location	Department of Veterinary Pathology , G1L3
Office Phone	22008
Office Hours	3:30-4:30pm
E-mail	ralrukib@just.edu.jo
Teaching Assistant(s)	
Course Description	

Textbook	
Title	Veterinary Laboratory Medicine: Clinical Pathology. 3rd ed.
Author(s)	Duncan, Prasse & Mahaffey.
Publisher	
Year	2010
Edition	8th
Book Website	
Other references	Class notes

Assessment		
Assessment	**Expected Due Date**	**Percentage**
First Exam	Wk #6	25%
Second Exam	Wk # 11	25%
Final Exam	Wk # 16-17	40%
Participation & Attendance		10%

Course Objectives	Percentage
-Contrast and compare blood, plasma, and serum. -Contrast and compare the anticoagulant properties of EDTA, citrate, and heparin.	
-Define a CBC and describe each component including what the units of measurement	
-Explain the basic purpose or potential value of each component of a CBC. -Explain how or why poor sample collection or handling may lead to erroneous CBC results.	
-Describe the general types of abnormalities that may be found in a blood film evaluation. -Define reticulocyte percentage (RP), corrected reticulocyte percentage (CRP), and reticulocyte concentration (RC) and describe the diagnostic value of information obtained from them. - Explain when we expect to find the following . reticulocytosis in a dog, cow, or horse- punctate or aggregate reticulocytosis in a cat **Given erythrograms and reference intervals of domestic mammals with the major anemia disorders: a. List and classify abnormalities using appropriate terms. b. Classify anemias as regenerative or nonregenerative if reticulocyte percentages are available. c. Propose appropriate diseases, syndromes, pathologic states, or conditions that could cause the defined abnormalities. d. Based on your conclusions or ideas, explain the pathogenesis of each defined abnormality if the abnormality could be caused by the disorder.	
**Given leukograms and reference intervals for domestic mammals with common clinical disorders: a. List and classify abnormalities using appropriate terms. b. Propose appropriate diseases, syndromes, pathologic states or conditions that might cause the defined abnormalities. c. Based on your conclusions or ideas, explain the pathogenesis of each defined abnormality if the abnormality could be caused by the disorder.	
**Given pertinent historical or physical findings, platelet concentration, PTT, PT, ACT,bleeding time, FDP concentration and/or fibrinogen concentration : a. List and classify abnormalities using appropriate terms. b. Propose appropriate ideas or conclusions (i.e., diseases, syndromes, or pathologic states) that might cause the defined abnormalities. c. Based on your conclusions or ideas, explain the pathogenesis of each defined abnormality if the abnormality could be caused by the disorder.	
** introduction to hematopoietic neoplasia	

Teaching & Learning Methods

Lectures which are going to be in the form of interactive and discussion type. Lectures will address the specific objectives of each topic and try to clarify and demonstrate important concepts. Flow chart, tables and photographs used will be similar to those in the recommended textbook whenever possible

Useful Resources

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Course Content

Lectures are going to be in the form of interactive and discussion type. Lectures will address the specific objectives of each topic and try to clarify and demonstrate important concepts. Flow chart, tables and photographs used will be similar to those in the recommended textbook whenever possible. Handouts of all lectures will be available. For each chapter a set of specific objective are given to the students. These will act as a guide to what information or skills are needed to be achieved by the students. This helps to achieve concentration on only the relevant and important information.

Additional Notes

This syllabus is subject to change at the discretion of the instructor. Material included is meant to provide an outline of the course and rules that the instructor will adhere to in evaluating the student's progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.