

Jordan University of Science and Technology
Faculty of Veterinary Medicine
Department of Pathology and Public Health
2nd Semester 2020/2021
Course Syllabus

Course Information	
Course Title	Veterinary Pathology I
Course Code	VM 351 AND VM 353
Prerequisites	VM 225 and VM 234
Course Website	elearning.just.edu.jo
Instructor	Wael Hananeh, DVM, MSc, Dipl. American College of Veterinary Pathologists
Office Location	G1L2
Office Phone #	22049
Office Hours	9:15 -11:15 Sundays 1:00: 2: 00(Mon ,and Wed) or any time available
E-mail	whananeh@just.edu.jo
Teaching Assistant(s)	Graduate students
Course Description	
<p>This course is designed to introduce basic concepts of Pathology to vet. Medical students in terms of tissue, organ, body & especially cellular response to various stimuli. This course will be central to the transition between the basic and the clinical Sciences. The materials will very interesting, and challenging. We will have 3 hours lectures and 1 Lab., glass slides will be shown and interpretation will be given. We welcome any criticism whether positive or negative and wish you hood luck in year IV.</p>	

Textbook	
Title	<i>Pathologic Basis of Veterinary Disease</i>
Author(s)	James F. Zachary and M. Donald McGavin
Publisher	ELSEVIER
Year	2012 or 2016
Edition	Fifth or sixth edition
Book Website	evolve.elsevier.com
Other references	<i>Robbins and Cotran Pathologic Basis of Disease</i>

Assessment		
Assessment	Expected Due Date	Percentage
First Exam	5-3 Sun	25
Second Exam	9-4 Sun	25
Participation	Presentations	10
Final Exam	TBD	40

Course Objectives	Percentage
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1.	To learn the history and basic terms of the branches of pathology	10%
2.	To learn causes of disease and cell necrosis and degeneration	15%
3.	To learn disturbance of circulation and cellular growth	20%
4.	To the process and mechanism of inflammation	20%
5.	To learn types and mechanism of neoplasia	20%
6.	To learn the mechanism of CNS diseases	10%

Teaching & Learning Methods
Lectures, power point images, videos, quizzes, take home exams (self-assessment)

Learning Outcomes: Upon successful completion of this course, students will be able to		
Related Objective(s)		Reference(s)
1		Chapter 1
1,2		Chapter 2
1-3		Chapter 3
4		Chapter 4
5		
6		
5		

Useful Resources

Course Content		
Week	Topics	Chapter in Textbook (handouts)
1	I. Introduction A. Definitions II. A. Cell structure & functions B. Cellular injury III Etiology Predisposing causes of disease A. Exiting causes of disease IV. Disturbances of cell metabolism A. Disturbances involving H2O	

- B. Disturbances involving proteins
- C. Disturbances involving CHO
- D. Disturbances involving Fats
- E. Disturbances involving Calcium
- F. Disturbances involving Pigments

V. Disturbances of growth Cells, organs.

VI. Death

- A. Necrosis
- B. Apoptosis
- C. Etosis
- D. necroptosis

VII. Disturbances of circulation

- A. Hyperemia
- B. Thrombosis
- C. Anemia
- D. Embolism
- E. Ischemia
- G. Infarction
- F. Hemorrhage
- I. Edema
- J. Shock

VIII. Inflammation

- A. Etiology on inflammation
- B. Function of
- C. Circulatory change in inflammation
- D. Cells of inflammation
- E. Inflammatory exudates
- F. Classification of inflammation
- G. Terminology of inflammation
- H. Healing

IX. Neoplasm

- A. Definition
- B. Characteristics of neoplasm
- C. Classification and nomenclature
- D. Etiology
- E. Effects of neoplasm
- F. Diagnosis of neoplasm
- G. Prognosis

Additional Notes