

Note: all the courses are taught jointly with Dr. Nabil

Jordan University of Science and Technology
Faculty of Veterinary Medicine
Department of Pathology and Animal Health
2nd Semester 2006/2007

Course Information	
Course Title	CELLULAR AND MOLECULAR PATHOLOGY
Course Number	VM781
Prerequisites	
Course Website	
Instructor	Dr. Wael Hananeh
Office Location	G1L2
Office Phone	22049
Office Hours	Sun 9-11, Mon&Wed 11-1
E-mail	whananeh@just.edu.jo
Teaching Assistant	NA
Course Description	

Text Book	
Title	Robbins & Cotran Pathologic Basis of Disease,
Author(s)	Vinay Kumar, Abul K. Abbas and Nelson Fausto
Publisher	Saunders
Year	2004
Edition	7th edition
Book Website	
References	<i>Mechanism of Disease: A Textbook of General Pathology, 3rd ed</i>

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam		20%
Second Exam		20%
Final Exam		50%
Assignments		10%

Course Objectives	Weights
1. To understand the basic knowledge of the cellular and molecular changes of different disease processes.	40%
2. To learn the student how they could reach a disease diagnosis based on the lesions and their pathogenesis.	30%

3. To encourage the student to develop a new skills that will help them to understand the new information.	10%
4. To expose the student to a few molecular techniques in the Lab	20%

Teaching & Learning Methods

Learning Outcomes: Upon successful completion of this course, students will be able to		
Related Objective(s)		Reference(s)
1	Be able to discuss the pathogenic mechanism of different diseases	Multiple Chapters and Handouts
1,2	Be able in making lesion and disease diagnosis	Chapter 1 from the reference
1-6	Be able to practice some molecular techniques	Handouts
1-3	To use their knowledge to expect the prognosis of the lesions	Chapters 1-6

Useful Resources

Course Content		
Week	Topics	Chapter in Text (handouts)
1		

Additional Notes	
Assignments	
Exams	
Cheating	
Attendance	
Workload	

Graded Exams	
Participation	
Laboratory	
Projects	

Jordan University of Science and Technology
Faculty of Veterinary Medicine
Department of Pathology and Animal Health
2nd Semester 2006/2007

Course Information	
Course Title	ONCOLOGY
Course Number	VM782
Prerequisites	
Course Website	
Instructor	Dr. Wael Hananeh
Office Location	G1L2
Office Phone	22049
Office Hours	Sun 9-11, Mon&Wed 11-1
E-mail	whananeh@just.edu.jo
Teaching Assistant	NA
Course Description	

Text Book	
Title	<i>Tumors In Domestic Animals, Fourth Edition</i>
Author(s)	<i>Donald J. Meuten</i>
Publisher	Blackwell
Year	2002
Edition	4th edition
Book Website	
References	www.afip.org/lvetpath

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam		20%
Second Exam		20%
Final Exam		50%
Assignments		10%

Course Objectives	Weights
1. To acquire a good knowledge of cancer pathogenesis.	20%
2. To learn the student how they could reach a diagnosis based on the morphology of the cells.	40%

3. To know the prognosis of different cancers.	10%
4. To expose the student to different techniques used in lab to reach a specific diagnosis.	30%

Teaching & Learning Methods
1- Text book 2- Web based study material (self learning) 3- Different PowerPoint and glass slide sets will be available for the student use.

Learning Outcomes: Upon successful completion of this course, students will be able to		
Related Objective(s)		Reference(s)
1	Be able to discuss the pathogenic mechanism of different tumors.	Chapter 1 and Handouts
1,2	Be able to make a specific diagnosis	Multiple Chapters and the website
4	Be able to practice different techniques to reach a final diagnosis.	Handouts
1-4	To use their knowledge to expect the prognosis of the lesions	Multiple chapters and the website
5,6		
6		
5		

Useful Resources
<i>Mechanism of Disease: A Textbook of General Pathology, 3rd ed</i> www.afip.org/vetpath

Course Content		
Week	Topics	Chapter in Text (handouts)
1-3	An overview of cancer, pathogenesis and diagnosis	Chapter 1
4-5	Tumors of the skin and soft tissues	Chapter 2
6-7	Tumors of the respiratory tract	Chapter 7
8-9	Tumors of the alimentary tract	Chapter 8
10	Tumors of the liver and gall bladder	Chapter 9
11-12	Tumors of the urinary system	Chapter 10
13	Tumors of the genital system	chapter 11
14-15	Tumors of the mammary gland	Chapter 12
16	Review	

Additional Notes	
Assignments	Reading and writing reports for the health centre cases
Exams	
Cheating	
Attendance	
Workload	
Graded Exams	
Participation	
Laboratory	
Projects	

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2nd Semester 2006/2007

Course Information	
Course Title	GASTRO-INTESTINAL PATHOLOGY
Course Number	VM785
Prerequisites	
Course Website	
Instructor	Dr. Wael Hananeh
Office Location	G1L2
Office Phone	22049
Office Hours	
E-mail	whananeh@just.edu.jo
Teaching Assistant	NA
Course Description	

Text Book	
Title	Thomson's Special Veterinary Pathology
Author(s)	M. Donald McGavin
Publisher	Mosby
Year	2001
Edition	3th edition
Book Website	
References	Jubb, Kennedy & Palmer's Pathology of Domestic Animals

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam		20%
Second Exam		20%

Final Exam		50%
Assignments		10%

Course Objectives		Weights
1. To learn and understand the etiology, pathology and pathogenesis of the gastrointestinal diseases.		50%
2. To be able to make a disease diagnosis from the gross and histopathological lesions.		30%
3. To know the proper way of writing a formal pathology report.		10%
4. To help the student to develop a self learning skills.		10%

Teaching & Learning Methods
1- Text book 2- Web based study material (self learning) 3- Different PowerPoint and glass slide sets will be available for the student use. 4- The student will be subjected to pathology cases from the veterinary health centre

Learning Outcomes: Upon successful completion of this course, students will be able to		
Related Objective(s)		Reference(s)
1	Be able to discuss the pathogenic mechanism of different gastrointestinal diseases	Chapter 3 and Handouts
2,3	Be able to use the proper medical terms utilizing the gastrointestinal pathology.	Multiple Chapters and the website
1	Be familiar with the most important gastrointestinal diseases in Jordan.	Handouts
1-4	To utilize their knowledge to expect the proper treatment for the affected animals.	Multiple chapters and the website
5,6		
6		
5		

Useful Resources
www.afip.org/vetpath

Course Content		
Week	Topics	Chapter in Text (handouts)

1-2	Diseases of the mouth	Chapter 1
3	Disorders of the teeth	Chapter 1
4	Disorders of the salivary gland	Chapter 1
5-6	Diseases of the esophagus and stomach	Chapter 1
7-10	Diseases of the intestines	Chapter 1 and handouts
11-14	Diseases of the liver and gall bladder	Chapter 2 and handouts
15-16	Diseases of the pancreas	chapter 2 and handouts

Additional Notes	
Assignments	Reading and writing reports for the health centre cases
Exams	
Cheating	
Attendance	
Workload	
Graded Exams	
Participation	
Laboratory	The student will learn how to read the glass slides and writing the proper pathology reports
Projects	The students will be presenting a few updated articles

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Course Information	
Course Title	RESPIRATORY PATHOLOGY
Course Number	VM784
Prerequisites	
Course Website	
Instructor	Dr. Wael Hananeh
Office Location	G1L2
Office Phone	22049
Office Hours	
E-mail	whananeh@just.edu.jo
Teaching Assistant	NA
Course Description	

Text Book	
Title	Thomson's Special Veterinary Pathology
Author(s)	M. Donald McGavin
Publisher	Mosby

Year	2001
Edition	3th edition
Book Website	
References	Jubb, Kennedy & Palmer's Pathology of Domestic Animals

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam		20%
Second Exam		20%
Final Exam		50%
Assignments		10%

Course Objectives		Weights
1. To learn and understand the etiology, pathology and pathogenesis of the respiratory diseases.		50%
2. To acquire an ability to describe the gross and histopathological lesions.		30%
3. To know the proper way of writing a formal pathology report.		10%
4. To help the student to develop a self learning skills.		10%

Teaching & Learning Methods
4- Text book 5- Web based study material (self learning) 6- Different PowerPoint and glass slide sets will be available for the student use. 7- The student will be subjected to pathology cases from the veterinary health centre

Learning Outcomes: Upon successful completion of this course, students will be able to		
Related Objective(s)		Reference(s)
1	Be able to discuss the pathogenic mechanism of different respiratory diseases	Chapter 3 and Handouts
2,3	Be able to use the proper medical terms utilizing the respiratory pathology.	Multiple Chapters and the website
1	Be familiar with the most important respiratory diseases in Jordan.	Handouts
1-4	To utilize their knowledge to expect the proper treatment for the affected animals.	Multiple chapters and the website
5,6		
6		

Useful Resources
www.afip.org/vetpath

Course Content		
Week	Topics	Chapter in Text (handouts)
1	Normal structure and function	Chapter 3
2	Defense mechanisms of the respiratory system	handouts
3-4	Diseases of the upper respiratory system	Chapter 1
5	General disorders of the lungs	Chapter 1 and handouts
6-7	Types of pneumonia	Chapter 1 and handouts
8-13	Pneumonia of infectious etiology	Chapter 1ad handouts
14-15	Pneumonia of noninfectious etiology	chapter 1and handouts
16	Diseases of the pleura	Chapter 1 and handouts

Additional Notes	
Assignments	Reading and writing reports for the health centre cases
Exams	
Cheating	
Attendance	
Workload	
Graded Exams	
Participation	
Laboratory	The student will learn how to read the glass slides and writing the proper pathology reports
Projects	The students will be presenting a few updated articles