

Jordan University of Science and Technology
Faculty of Veterinary Medicine
Department of Basic Medical Veterinary Sciences
Second Semester

Course Information	
Course Title	Veterinary Anatomy I
Course Number	VM 112
Prerequisites	
Course Website	Just E learning
Instructor	Dr. Mohammad Borhan Al-Zghoul
Office Location	G1 level 3
Office Phone	22010
Office Hours	Sunday: 9:15-10:15 Monday: 8:15-9:15 Tuesday: 9:15-10:15 Wednesday: 8:15-9:15 Thursday: 9:15-10:15 or by appointment
E-mail	alzghoul@just.edu.jo
Teaching Assistant	
Course Description	
<p>VM112 presents the gross anatomy of the Carnivore (dog and cat), Ruminants (ox, goat), and the Horse from a regional perspective, utilizing clinical applications as a basis for anatomical understanding. Students will learn the principles of macroscopic anatomy, basic structure, and applied anatomy of the bones, muscles, and joints of the thoracic limb, head and trunk regions; dissection of the dog with relevant comparisons to the horse and domestic ruminants. This course is navigable by students with no previous anatomical study.</p>	

Text Book	
Title	Dyce, Sack, and Wensing's Textbook of Veterinary Anatomy
Author(s)	Singh, Baljit
Publisher	Saunders
Year	2017
Edition	5 th Edition
Book Website	N/A
References	
Text Book	
Title	Miller's Guide to Dissection of the Dog
Author(s)	Evans and DeLahunta.

Publisher	W.B. Saunders Company
Year	2017
Edition	8 th Edition
Book Website	N/A
References	

Assessment Policy		
Assessment Type	Expected Due Date	Weight
Quizzes	Week 2, 4, 6, 10 and 12	20%
Midterm Exam	Week 8-10	40%
Final Exam	Week 15	40%

Course Objectives	Weights
1. Obtain a basic understanding of principles that can assist with comparing anatomical structures of the cat and dog.	30%
2. learn the principles of macroscopic anatomy, basic structure, and applied anatomy of the bones, muscles, and joints of the thoracic limb, head and trunk regions	30%
3. Develop mental images of the animal to assist in positioning and orientation of structures in the living animal. To assist in diagnostic procedures and evaluating the results obtained from imaging techniques.	40%

Teaching & Learning Methods
Power Point presentation 3D virtual anatomy Web-based instruction Laboratory sessions include a combination of demonstration and hands on exercises

Learning Outcomes: Upon successful completion of this course, students will be able to
<ul style="list-style-type: none"> - distinguish and describe the anatomical position, directional and terminology terms. - distinguish and describe the anatomy of the long bones, bones of the forelimb, bones of the skull and axial skeleton. - distinguish and describe the muscle types and muscle grouping and classification. - distinguish and describe the joint types and their components. - distinguish and describe the blood and nervous supply of the forelimb. - distinguish and describe the anatomy of cardiovascular system. - distinguish and describe the comparative anatomy of respiratory system. - distinguish and describe the anatomy of Central nervous system - distinguish and describe the anatomy of eye and special senses

Useful Resources

<http://vanat.cvm.umn.edu/ungDissect/Lab01/Lab01.html>

<http://www.cvmbs.colostate.edu/vetneuro/VCA3/vca.html>

<http://vanat.cvm.umn.edu/carnLabs/>

<http://www.real3danatomy.com/bones/dog-forelimb-3d.html>

http://vetmed.illinois.edu/courses/imaging_anatomy/canine/forelimb/shoulder/ex01/ex01.html

Course Content

Week	Topics	Chapter in Text (Miller's Guide)
1	Introduction - Terminology and directions	1
2	Bones of the forelimb - Comparative and Radiology	2
3	Bones of the axial skeleton - Comparative and Radiology	2
4	Bones of the Skull - Comparative and Radiology	2
5 & 6	Muscles of the forelimb - Blood Supply - Nerve supply - Joints	2 & 3
7	Epaxial and Hypaxial Muscles (Thorax and abdomen)	3
8 & 9 Midterm exam	Muscles of the Head and head structures - Blood Supply - Nerve supply	2 & 4
10	Cardiovascular system - Heart - Blood vessels	5
11	Respiratory system - Upper respiratory system - Lower respiratory system	5
(Monday exam) 12	Central nervous system I - Brain anatomy - Brain development	2 & 5
13	Central nervous system II - Spinal cord - Autonomic nervous system	handout

14	- Eye anatomy and special sense	5
15	- Review - Final exam	