

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

Course Information	
Course Title	Veterinary Anatomy II
Course Number	VM 213
Prerequisites	VM 112
Course Website	Just E learning
Instructor	Dr. Mohammad Borhan Al-Zghoul
Office Location	G1 level 3
Office Phone	22010
Office Hours	Sunday: 8:30-9:30 Tuesday: 8:30-9:30 Thursday: 1:30-2:30 or by appointment
E-mail	alzghoul@just.edu.jo
Teaching Assistant	
Course Description	
Gross anatomy II focuses on comparative gross anatomy of domestic animals including canine, equine, and with special emphasis on ruminant anatomy. Laboratories utilize embalmed ovine and canine cadavers for dissections and pro-sections of other species. Also integrated into the course is normal radiographic anatomy and topographical anatomy through live animal palpation. Topics covered in the gross anatomy II includes osteology and muscle systems of the pelvic limb, anatomy of the digestive, renal, male and female reproductive system. In the anatomy practical classes students will develop skills in dissection and learn to appreciate variation in structure due to species, age, and sex.	

Text Book	
Title	Anatomy of Domestic Animals
Author(s)	Pasquini, Spurgeon, Pasquini
Publisher	SUDZ publishing
Year	1997
Edition	7 th Edition
Book Website	N/A
References	
Text Book	

Title	Veterinary Anatomy of Domestic Mammals: Textbook and Colour Atlas
Author(s)	Horst Erich König , Hans-Georg Liebich
Publisher	Schattauer publishing
Year	2014
Edition	6 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	2009
Edition	7 th Edition
Book Website	N/A
References	

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam		30%
Second Exam		30%
Final Exam		40%

Course Objectives	Weights
1) Obtain a basic understanding of principles that can assist with comparing anatomical structures of the dog and the other animal species.	40%
2) 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.	60%

Teaching & Learning Methods
Power Point lectures 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
- distinguish and describe the anatomy of the hind limb bones. - distinguish and describe the muscles, joints, blood supply and nerve supply of the hind limb.

- distinguish and describe the head structures.
- distinguish and describe the comparative anatomy of Digestive system.
- distinguish and describe the comparative anatomy of Renal system.
- distinguish and describe the comparative anatomy of Male reproductive system.
- distinguish and describe the comparative anatomy of Female reproductive system.
- distinguish and describe the anatomy of hoof and special senses.
- distinguish and describe the chicken anatomy.

Useful Resources

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

<http://www.cvmb.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
1	Introduction - Terminology and directions Bones of the Hind limb I	1
2	Bones of the Hind limb II - Comparative and Radiology	2
3 & 4	Muscles of the hind limb - Blood Supply - Nerve supply - Joints	2 & 4
5	Head structures - Review Skull and Guttural pouch - Muscles	2
6	Head structures - Muscles	2 & 3
7	- CNS I	
8	- CNS II - Nerve supply (cranial nerve)	
9	- Respiratory system - Digestive system I	3
10	- Digestive system II	3
11	- Digestive system III - Endocrine system and Lymphatic system	3 2 & 4
12	- Renal system	

	- Male reproductive system	
13	- Female reproductive system	5
14	- Hoof - Horn - Mammary gland - Eye anatomy and special sense	Handout
15	- Chicken Anatomy - Review	Handout

VM 213 - Tentative Lab Schedule

The lab assignment schedule is set up as follows: You are responsible for knowing all of the terms in **bold** in the assigned pages of the dog dissection guide. It is important that you read and follow the dog guide assignment and find the **bold** terms on your animal.

<u>Week</u>	<u>Sunday</u>	<u>Tuesday</u>
<u>Assignment Number:</u>		
1	----1-----2-----	
2	-----2-----	
3	-----3-----	
4	-----3-----	
5	-----3-----	
6	-----4-----5-----	
7	-----6-----	
8	-----6-----	
9	-----7-----8-----	
10	-----9-----	
11	-----10-----	
12	-----11-----	
13	-----12-----	
14	-----13-----	

Assignments:

1. Anatomical terminology]: pp 1-5
2. Bone of the hind limb: pp 41-50
3. Muscles, vessels and nerves of the hind limb: pp 50-75, pp 186-204.
4. Review bones of the skull: 208-224
5. Muscles, vessels and nerves of the Head: pp 225-226, pp 238-240, pp245-25
6. Digestive system I & II: p145-170
7. Lymphatic system and endocrine system
8. Renal system: pp 175-180
9. Male reproductive system: pp 180-183
10. Female reproductive system pp: 183-185
11. Hoof, horn and mammary gland: handouts
12. Eye anatomy and special sense: hand out
13. chicken anatomy: handout