

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

<b>Course Information</b>	
<b>Course Title</b>	Veterinary Anatomy Practical I
<b>Course Number</b>	VM 112
<b>Prerequisites</b>	
<b>Course Website</b>	Just E learning
<b>Instructor</b>	Dr. Mohammad Borhan Al-Zghoul
<b>Office Location</b>	G1 level 3
<b>Office Phone</b>	22010
<b>Office Hours</b>	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
<b>E-mail</b>	alzghoul@just.edu.jo
<b>Teaching Assistant</b>	Dr. AbdulRahman Nasr
<b>Course Description</b>	
<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>	

<b>Text Book</b>	
<b>Title</b>	Anatomy of Domestic Animals
<b>Author(s)</b>	Pasquini, Spurgeon, Pasquini
<b>Publisher</b>	SUDZ publishing
<b>Year</b>	1997
<b>Edition</b>	7 <sup>th</sup> Edition
<b>Book Website</b>	N/A
<b>References</b>	
<b>Text Book</b>	
<b>Title</b>	<b>Miller's Guide to Dissection of the Dog</b>
<b>Author(s)</b>	Evans and DeLahunta.

<b>Publisher</b>	W.B. Saunders Company
<b>Year</b>	2009
<b>Edition</b>	7 <sup>th</sup> Edition
<b>Book Website</b>	N/A
<b>References</b>	

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

<b>Course Objectives</b>	<b>Weights</b>
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%

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

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

### Useful Resources

<https://www.imaios.com/en/vet-Anatomy/Dog/Dog-General-anatomy-Illustrations>

<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](http://vetmed.illinois.edu/courses/imaging_anatomy/canine/forelimb/shoulder/ex01/ex01.html)

### VM 112 - Tentative Lab Schedule- 15

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

**Assignments:**

1. Anatomical terminology|: pp 1-5
2. Bone of the forelimb: pp 6-15
3. Bones of the axial skeleton: pp 75-81
4. Bone of the skull: 208-224
5. Muscles, joints, vessels and nerves of the Forelimb: pp 15-41, pp 119-137.
6. Epaxial and Hypaxial Muscles and Joints: pp 81-88; P 89-92
7. Muscles, vessels and nerves of the Head: pp 225-226, pp 238-240, pp245-25
8. Cardiovascular system: pp 115-119
9. Respiratory system pp: 103-105
10. Central nervous system: pp 262-288
11. Eye anatomy and special sense: pp 241-245