



Course Descriptor
VTMD181 Veterinary Anatomy I Lab

Proposed Academic Year	2021-22	Last Reviewed Academic Year	2021
Course Code	VTMD181	Course Title	Veterinary Anatomy I Lab
Credit hours	1	Level of study	Undergraduate
College / Centre	CAHS	Department	Vet. Medicine
Co-requisites	VTMD101	Pre-requisites	BIOL181

1. COURSE OUTLINE

This course will be the practical part of the theory course that deals with the anatomical structures of the skeletal-muscular system (bones, joints, & muscles) of domestic animal species.

2. AIMS

This course aims to introduce students to laboratory experience on basic principles of macroscopic anatomy, basic structure, and applied anatomy of the bones, muscles, and joints of the thoracic limb and pelvic limb; anatomical dissection of the domestic animals.

3. LEARNING OUTCOMES, TEACHING, LEARNING and ASSESSMENT METHODS

Learning Outcomes (Definitive)	Teaching and Learning methods (Indicative)	Assessment (Indicative)
Upon successful completion of this course, students will be able to:		
1. Demonstrate in the lab the anatomical direction terms and given knowledge of the development and functions of the macroscopic anatomy of animals.	Lecture and Demonstration Lab Work, Group work	Lab work sheet, Prelab assignment
2. Explain in the lab the basic structure, of the bones, muscles, and joints of the thoracic limb and pelvic limb	Lecture and Demonstration Lab Work, Group work	Lab work sheet, Prelab assignment Quiz
3. Perform Lab demonstration of the regional anatomy of the muscles, joints and bones of the body.	Lecture and Demonstration Lab Work, Group work	Lab work sheet, Prelab assignment Practical Examination
4. Appreciate the importance of veterinary anatomy during clinical years of the course.	Lecture and Demonstration Lab Work, Group work	Lab work sheet, Prelab assignment Practical Examination



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4. ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Assignment	20%
Lab reports	20%
Mid-term Examination	20%
Final Examination	40%
TOTAL	100%

5. ACHIEVING A PASS

Students will achieve **1** credit hours for this course by passing **ALL** of the course assessments [*Lab reports, Midterm exam and final examination*] and achieving a **minimum overall score of 50%**

NB *Ensure that ALL learning outcomes are taken into account

6. COURSE CONTENT (Indicative)

Introduction - Anatomical terms & directions - Body Regions.	
Regions of forelimb & Scapula.	
Shoulder girdle (Synsarcosis) + Quiz I	
Arm region: Humerus and Muscles.	
Forearm region: Radius & Ulna - Extensor & Flexor Muscles.	
Manus region: Carpus, Metacarpus & Digit - Tendons and Ligaments.	
Regions of Hind limb: Pelvic girdle & Femur.	
Muscles of gluteal & thigh regions	
Leg & Pes region: Tibia, Fibula, Tarsus & Metatarsus - Extensor & Flexor Muscles -Tendons and Ligaments.	
Blood vessels of forelimb and Brachial plexus	
Blood vessels of hind limb and Lumbosacral plexus.	
TOTAL HOURS	42
Plus RECOMMENDED INDEPENDENT STUDY HOURS	15
TOTAL COURSE HOURS	57

7. RECOMMENDED REFERENCES

Core text/s:

- 1- Dyce, Sack, Wensing; Textbook of Veterinary Anatomy 5th Edition.
- 2- Sisson; The Anatomy of the Domestic Animals. 5th Ed.

Library + online resources:

<https://guides.library.upenn.edu/VetStudy-Anatomy>

Open Educational Resources:

- 1- <https://apps.cvm.iastate.edu/limbanatomy/>
- 2- <http://vanat.cvm.umn.edu/>
- 3- <https://secure.vet.cornell.edu/oed/sunymusc/>
- 4- <http://www.real3danatomy.com/index.html>
- 5- <https://secure.vet.cornell.edu/oed/Horsedissection/>