



Course Descriptor VTMD101 Veterinary Anatomy I

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|-------------------------------|-----------|------------------------------------|----------------------|
| Proposed Academic Year | 2021 - 22 | Last Reviewed Academic Year | 2021 |
| Course Code | VTMD101 | Course Title | Veterinary Anatomy I |
| Credit hours | 3 | Level of study | Undergraduate |
| College / Centre | CAHS | Department | Vet. Medicine |
| Co-requisites | VTMD181 | Pre-requisites | BIOL101 |

1. COURSE OUTLINE

This course is intended to give students the basic principles of anatomical terms and then the anatomical structures of the musculoskeletal system (bones, joints, muscles, tendons & ligaments) of different animal species.

2. AIMS

This course aims to introduce students with the basic principles of macroscopic anatomy, basic structure, and applied anatomy of the bones, muscles, and joints of the thoracic limb & pelvic limb and 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 the anatomical direction terms and given knowledge of the development and functions of the macroscopic anatomy of animals. | Lectures and tutorials | Assignment, quizzes, Work sheets and written examinations. |
| 2. Explain the basic structure, of the bones, muscles, and joints of the thoracic limb and pelvic limb. | Lectures, tutorial and discussion. | Assignment, quizzes, in-class tests and written examinations. |
| 3. Demonstrate the regional anatomy of the muscles, joints and bones of the limbs. | Lectures, tutorial and discussion. | Assignment, quizzes, Work sheets and written examinations. |
| 4. Understand the integrated function of the musculoskeletal system in the context of weight bearing and locomotion in different animals. | Lectures, tutorial and discussion. | Work sheets and written examinations. |
| 5. Appreciate the importance of veterinary anatomy during clinical years of the course. | Lectures, case studies and discussion | Assignment, in-class tests and written examinations |



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4. ASSESSMENT WEIGHTING

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

5. ACHIEVING A PASS

Students will achieve **3** credit hours for this course by passing **ALL** of the course assessments [*quizzes, 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)

General Introduction, Anatomical terms & directions.

General Osteology, Myology & General arthrology

Special Arthrology of the thoracic limb; Shoulder Joint, Elbow Joint and Carpal Joint

Special Arthrology of the pelvic limb; Sacroiliac Joint, Hip Joint, Stifle Joint and Tarsal Joint.

Special Arthrology of the distal limb; Fetlock Joint, Pastern Joint and Coffin Joint

Stay apparatus of the forelimb and hind limb of Equine.

Blood supply of the forelimb and hind limb.

Innervation of the forelimb and hind limb.

Hoof and Claw

TOTAL HOURS

48

Plus **RECOMMENDED INDEPENDENT STUDY HOURS**

27

TOTAL COURSE HOURS

75

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:

- 1- <https://guides.library.upenn.edu/VetStudy-Anatomy>
- 2- <https://www.onlineveterinaryanatomy.net/>

Open Educational Resources (OER):

- 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/>