



Course Descriptor VTMD212 Veterinary Physiology II

Proposed Academic Year	2021 - 22	Last Reviewed Academic Year	2021
Course Code	VTMD212	Course Title	Veterinary Physiology 2
Credit hours	3	Level of study	Undergraduate
College / Centre	CAHS	Department	Vet. Medicine
Co-requisites	VTMD282	Pre-requisites	VTMD112

1. COURSE OUTLINE

This course is continuity to veterinary physiology I course that will cover the normal function of the following body systems of different animal species: Nervous, urinary, special sense, endocrine & reproductive. Species differences and comparative physiology are being discuss.

2. AIMS

The course aims to give the students to know the normal physiological concepts of different body system and also to know the use of instruments to measure and evaluate the function of the body systems.

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. Explain the functions of the skin & nervous systems including the central nervous system, peripheral nervous system, afferent and efferent nerves, and the autonomic nervous system.	Lectures, tutorial, discussion	Assignment, Work sheets and written examinations.
2. Demonstrate an understanding of the functions of the male & female reproductive system, including reproduction in animals.	Lectures, tutorial, discussion	Quizzes, Work sheets and written examinations.
3. Explain the principles and functions of hormone & vitamin action, including structure, mechanism of release from endocrine cell, mode of transport in blood, mechanism of action in target cells, and systemic effects of important hormones.	Lectures, tutorial, discussion	Quizzes, Work sheets and written examinations.
4. Analyze the structure and functions of the kidney nephrons, including glomerular filtration, tubular reabsorption, tubular secretion, and excretion	Lectures, tutorial, discussion	Quizzes, Work sheets 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)

Neurophysiology

Urinary system and nephrology

Endocrinology

Reproductive physiology - Female

Reproductive physiology - Male

Physiology of growth

Comparative physiology

- Ruminant physiology
- Avian physiology
- Fish physiology

TOTAL HOURS

48

Plus **RECOMMENDED INDEPENDENT STUDY HOURS**

27

TOTAL COURSE HOURS

75

7. RECOMMENDED REFERENCES

Core text/s:

- William O. Reece (Editor): Dukes` Physiology of Domestic Animals. 13th Edition.
- Bradley G. Klein (Editor): Cunningham's Textbook of Veterinary Physiology. 5th Edition.
- A.C. Guyton, J.E. Hall (Editors): Medical Physiology, 10th Ed. W.B. Saunders Company, USA.

Library + online resources:

Open Educational Resources: