



Course Descriptor
VTMD311 General Veterinary Pathology

Proposed Academic Year	2021 - 22	Last Reviewed Academic Year	
Course Code	VTMD311	Course Title	General Veterinary Pathology
Credit hours	3	Level of study	Undergraduate
College / Centre	CAHS	Department	
Co-requisites	VTMD381	Pre-requisites	VTMD101

1. COURSE OUTLINE

Pathology is a core discipline in veterinary medicine. Students will learn general principles about the processes involved in disease. The course will give the students the general principles and mechanisms of disease by studying the basic principles of cell and tissue reactions to injury, including degeneration, necrosis, abnormal pigmentation, disturbances of circulation, disturbances of growth, neoplasia, inflammation, and immunopathology, etiology, pathogenesis, gross and microscopic lesions, and diagnosis of diseases of the organ systems in the body.

2. AIMS

This course aims to introduce students with the basic aspects of tissue changes in diseases in addition to developing the skills in identifying various changes by necropsy & histopathology examination.

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. Identify the changes in tissues and organ in diseased animals	Power point presentations, lab work, discussion	Work sheets and written examinations
2. Describe the pathological changes in the tissue.	Power point presentations, lab work, discussion	Work sheets and written examinations
3. Recognize the need for necropsy procedure on dead animals.	Power point presentations, lab work, discussion	Work sheets and written examinations
4. Analyze the stages of development of diseases.	Power point presentations, lab work, discussion	Work sheets and written examinations

4. ASSESSMENT WEIGHTING

Assessment	Percentage of final mark (%)
Assignment	20%



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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, Mid-term, Final Examination* *] and achieving a **minimum overall score of 50%**

NB *Ensure that ALL learning outcomes are taken into account

6. COURSE CONTENT (Indicative)

Overview: Injury, Death and Adaptive Responses.

Necrosis

Cell Death and Cell Recovery.

Apoptosis: Programmed Cell Death.

Cellular Responses to Sublethal Injury.

Metabolite Overload.

Protein Aggregation Disorders.

Amyloid.

Calcification.

Extrinsic and intrinsic Pigments.

Blood disorders.

Inflammation and necrosis.

Inflammation:

Clinical Signs and Lesions.

Pathogenesis of Acute Inflammation.

Systemic Signs of Acute Inflammation.

Chemical Mediators of Inflammation.

Chronic Inflammation.

Repair: Wound Healing and Regeneration.

Repair.

Angiogenesis.

Fibrosis.

Epithelialization.

Regeneration.

Immunologic Disorders.

Disorders from Reduced Innate Immunity.

Defects in Adaptive Immunity.

Hypersensitivity Disease.

Autoimmune Disease.

TOTAL HOURS

45

Plus **RECOMMENDED INDEPENDENT STUDY HOURS**

15

TOTAL COURSE HOURS

60



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7. RECOMMENDED REFERENCES

Core text/s:

[Jones, Hunt & King \(Editors\): Veterinary Pathology, 6th Ed, Williams & Wilkins, USA.](#)

Library + online resources:

Open Educational Resources: