



**Course Descriptor**  
**VTMD381 General Veterinary Pathology Lab**

<b>Proposed Academic Year</b>	2021 - 2022	<b>Last Reviewed Academic Year</b>	
<b>Course Code</b>	VTMD381	<b>Course Title</b>	VTMD381 General Veterinary Pathology Lab
<b>Credit hours</b>	1	<b>Level of study</b>	Undergraduate
<b>College / Centre</b>	CAHS	<b>Department</b>	VTMD
<b>Co-requisites</b>	VTMD311	<b>Pre-requisites</b>	VTMD181 VTMD292

**1. COURSE OUTLINE**

This course is a lab work that introduce the concepts of injury and departures from normal structure and function in the animal's body, as occurs in disease. The various pathological processes and their importance in the basis of animal disease will be studied. Correlation with clinical presentation will also be made.

**2. AIMS**

This course aims to give the students lab experience and 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**

<b>Learning Outcomes (Definitive)</b>	<b>Teaching and Learning methods (Indicative)</b>	<b>Assessment (Indicative)</b>
Upon successful completion of this course, students will be able to:		
1. Perform necropsy procedure.	Lecture and Demonstration Lab Work ,Group work	Lab work sheet, Pre lab assignment
2. Identify tissue changes by examine histopathology slides	Lecture and Demonstration Lab Work ,Group work	Lab work sheet, Pre lab assignment Quiz
3. Conduct special immune-diagnostic test in the lab	Lecture and Demonstration Lab Work ,Group work	Lab work sheet, Pre lab assignment Practical Examination

**4. ASSESSMENT WEIGHTING**

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



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**5. ACHIEVING A PASS**

Students will achieve **1** credit hours for this course by passing **ALL** of the course assessments [Lab reports, 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.

Pigments.

Crystals.

Connective Tissue Substances.

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**

**42**

Plus **RECOMMENDED INDEPENDENT STUDY HOURS**

**15**

**TOTAL COURSE HOURS**

**57**

**7. RECOMMENDED REFERENCES**

**Core text/s:**

-M.D. McGavin, J.F. Zachary (Editors): Pathologic Basis of Veterinary Disease, 4th Ed. MOSBY ELSEVIER.

**Library + online resources:**

**Open Educational Resources:**



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