



## Course Descriptor VTMD222 Veterinary Histology and Embryology

<b>Proposed Academic Year</b>	2021 - 22	<b>Last Reviewed Academic Year</b>	2021
<b>Course Code</b>	VTMD222	<b>Course Title</b>	Veterinary Histology and Embryology
<b>Credit hours</b>	2	<b>Level of study</b>	Undergraduate
<b>College / Centre</b>	CAHS	<b>Department</b>	Vet. Medicine
<b>Co-requisites</b>	VTMD292	<b>Pre-requisites</b>	BIOL181

### 1. COURSE OUTLINE

In this course the students will learn the microscopic structures of cells, tissues, and organs of different animal species. Also, the students will learn the stages of embryonic development from the time of fertilization till birth.

### 2. AIMS

This course aims to provide the students with a detailed knowledge and understanding of the histological structures of different body cells/ organs. Also the course aims to give the students the knowledge of early embryonic development of different animal species.

### 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. Identify different types of tissues in the animal's body.	Lectures, class activities, discussion	Assignment, quizzes, Work sheets and written examinations.
2. Describe the structure of various animal tissues.	Lectures, class activities, discussion	Assignment, quizzes, in-class tests, and written examinations.
3. Explain the functions of various tissues and organs of animals.	Lectures, class activities, discussion	Assignment, quizzes, Work sheets and written examinations.
4. Analyze the stages of embryonic development	Lectures, class activities, discussion	Work sheets and written examinations.

### 4. ASSESSMENT WEIGHTING

<b>Assessment</b>	<b>Percentage of final mark (%)</b>
Assignment	20%
Quizzes	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 **2** 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)

Cytology

General Histology

Digestive system

Respiratory system

Cardiovascular system

Nervous system

Urinary system

Reproductive organs

Skin and sense organs

Avian species

General Embryology

Special Embryology

**TOTAL HOURS**

**30**

Plus **RECOMMENDED INDEPENDENT STUDY HOURS**

**15**

**TOTAL COURSE HOURS**

**45**

### 7. RECOMMENDED REFERENCES

#### Core text/s:

- JoAnn Eurell, Brian L. Frappier (Editor) Dellmann's Textbook of Veterinary Histology, with CD, 6th Edition.
- Thomas F. Fletcher (Ed): Veterinary Developmental Anatomy, Alvin Weber Company. (2004)
- V.P. Eroschenko (Editors): Atlas of Histology with Functional Correlations, 9th Ed. Lippincott Williams & Wilkins.

#### Library + online resources:

Online veterinary Museum of royal veterinary college

#### Open Educational Resources:

- <http://vanat.cvm.umn.edu/>