



Course Descriptor
VTMD325 Animal Nutrition

Proposed Academic Year	2021 - 22	Last Reviewed Academic Year	
Course Code	VTMD325	Course Title	Animal Nutrition
Credit hours	3	Level of study	undergraduate
College / Centre	CAHS	Department	VTMD
Co-requisites		Pre-requisites	VTMD213

1. COURSE OUTLINE

The course includes topics on nutrients, the digestive processes, and the application of nutritional sciences to the health and well-being of various species of animals.

2. AIMS

This course aims to introduce topics related to the fundamental and applied aspects of industrial and domestic animal nutrition. Principles covered include: classification and function of nutrients, deficiency symptoms, digestive processes, characterization of feedstuffs, and formulation of diets for 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. Explain the classification and function of nutrients, deficiency symptoms, and digestive processes.	Power point presentations, lab work, discussion	Work sheets and written examinations
2. Demonstrate an understanding of the components of feedstuffs, the action of digestion, and the evaluation of an animal's nutritional health based on physical appearance.	Power point presentations, lab work, discussion	Work sheets and written examinations
3. Appreciate the multi-varied aspects of nutrition and its contribution to the overall health of an animal.	Power point presentations, lab work, discussion	Work sheets and written examinations
4. Explain the classification and function of nutrients, deficiency symptoms, and digestive processes.	Power point presentations, lab work, discussion	Work sheets and written examinations

4. ASSESSMENT WEIGHTING



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

NB *Ensure that ALL learning outcomes are taken into account

6. COURSE CONTENT (Indicative)

1. Introduction to Nutrition	
2. Gastrointestinal Tract, Digestive Organs, and Processes	
3. Carbohydrates, Structures and Types	
4. Carbohydrates, Digestion and Absorption	
5. Carbohydrates, Metabolism	
6. Lipids, Structure	
7. Lipids, Digestion	
8. Lipids, Transport, Deposition, and Metabolism	
9. Proteins	
10. Proteins, Digestion and Absorption	
11. Proteins, Metabolism	
12. Proteins and Amino Acids, Quality	
13. Vitamins	
14. Water-Soluble Vitamins (B and C)	
15. Minerals	
16. Microminerals	
17. Bioenergetics	
18. Water in Animal Nutrition	
19. Feed Additives	
20. Measurement of Feed and Nutrient Utilization in Food-Producing Animals	
TOTAL HOURS	45
Plus RECOMMENDED INDEPENDENT STUDY HOURS	15
TOTAL COURSE HOURS	60



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7. RECOMMENDED REFERENCES

Core text/s:

[Gordon Dryden \(Editor\): Animal Nutrition Science, 3rd edition, Wiley, USA. \(2008\)](#)

Library + online resources:

Open Educational Resources: