



Course Descriptor
VTMD413 Veterinary Infectious and Zoonotic Diseases

Proposed Academic Year	2021 - 22	Last Reviewed Academic Year	
Course Code	VTMD413	Course Title	Veterinary Infectious and Zoonotic Diseases
Credit hours	3	Level of study	Undergraduate
College / Centre	CAHS	Department	VTMD
Co-requisites		Pre-requisites	VTMD322

1. COURSE OUTLINE

The course provides diseases caused bacteria, viruses, fungi and parasites of domestic animals. Also covers the diseases of zoonotic importance.

2. AIMS

This course aim to give an overview on emerging diseases that affected domestic animals with great emphasis on zoonotic Infections. The course will cover Foodborne Zoonotic Diseases, Zoonotic Diseases of Wild Animals, Occupational Zoonosis, Evolutionary Drivers for Emergence of New Zoonotic Diseases, Prevention and Control of Zoonosis, evolutionary genomics of multi-drug resistant pathogens from human and animal infections.

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. Demonstrate a good understanding on emerging infectious diseases, zoonotic infections and their drivers into human populations.	Power point presentations, lab work, discussion	Assignment, Work sheets and written examinations
2. Explain how infectious diseases spread between animals and humans.	Power point presentations, lab work, discussion	Work sheets and written examinations
3. Describe the evolutionary drivers for emergence of new zoonotic diseases.	Power point presentations, lab work, discussion	Work sheets and written examinations
4. Explain the prevention and control of Zoonoses.	Power point presentations, lab work, discussion	Work sheets and written examinations
Discuss the evolutionary genomics of multi-drug resistant pathogens from	Power point presentations, lab work, discussion	Work sheets and written examinations



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human and animal infections		
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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, 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)

<ul style="list-style-type: none"> The global challenge of zoonoses control Deliberate release of zoonotic agents Veterinary and human health surveillance and risk analysis of zoonoses in the UK and Europe Health impact assessment and burden of zoonotic diseases Antimicrobial resistance: animal use of antibiotics 	
<ul style="list-style-type: none"> Bacterial, chlamydial, and rickettsial zoonoses 	
<ul style="list-style-type: none"> Viral zoonoses 	
<ul style="list-style-type: none"> Parasitic zoonoses 	
TOTAL HOURS	45
Plus RECOMMENDED INDEPENDENT STUDY HOURS	15
TOTAL COURSE HOURS	60

7. RECOMMENDED REFERENCES

Core text/s:

- J. H. Gillespie, J.F. Timoney (Editors): Hagan and Bruners Infectious Diseases of Domestic Animals, 7th Ed. Cornell University Press, USA.

Library + online resources:

Open Educational Resources: