

Course Descriptor VTMD414 Veterinary Obstetrics and Theriogenology

Proposed Academic Year	2021 - 2022	Last Reviewed Academic Year	
Course Code	VTMD414		Veterinary Obstetrics and Theriogenology
Credit hours	3	Level of study	Undergraduate
College / Centre	CAHS	Department	VTMD
Co-requisites		Pre-requisites	VTMD324

1. COURSE OUTLINE

The course introduces topics on breeding soundness in male and female animals, and normal pregnancy and production. Integration of reproductive physiology, endocrinology, pathology and pharmacology as they apply to the diagnosis, treatment and prevention of reproductive disorders of domestic animals. Normal estrous cycles, breeding, pregnancy and parturition in domestic animal species will be covered.

2. AIMS

This course aims to provide students with a thorough understanding on basic reproduction and apply concepts useful in veterinary practice. Students will be equipped on breeding management of the male and female, pregnancy diagnosis in all species, care of pregnant animals as well as management of parturition and dystocia, and aspects of neonatal medicine. The course will also cover how to diagnose sub-fertility in male and female animal species. Students will also be introduced with advanced reproductive techniques such as preservation of semen, IVF, synchronization, embryo transfer and stem cell technologies.

3. LEARNING OUTCOMES, TEACHING, LEARNING and ASSESSMENT METHODS				
Learning Outcomes (Definitive) Upon successful completion of this course, students will be able to:	Teaching and Learning methods (Indicative)	Assessment (Indicative)		
1. Demonstrate knowledge of normal reproductive function and management of domestic species of animals of interest.	Power point presentations, discussion	Assignment, Work sheets and written examinations		
2. Explain the breeding management of the male and female, pregnancy diagnosis in all species.	Power point presentations, discussion	Work sheets and written examinations		
3. Describe how to take care of pregnant animals as well as management of parturition and dystocia, and aspects of neonatal medicine.	Power point presentations, discussion	Work sheets and written examinations		



Course Descriptor VTMD414 Veterinary Obstetrics and Theriogenology

4.	Diagnose sub-fertility in male and female animal species.	Power point presentations, discussion	Work sheets and written examinations
	Demonstrate a good understanding of advanced reproductive techniques such as preservation of semen, IVF, synchronization, embryo transfer and stem cell technologies.	Power point presentations, discussion	Work sheets and written examinations

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 <u>3</u> credit hours for this course by passing <u>ALL</u> of the course assessments [Quizzes, Mid-term, Final examination*] and achieving a minimum overall score of <u>50%</u>

NB *Ensure that ALL learning outcomes are taken into account

6. COURSE CONTENT (Indicative)

Gestation and Pathology of Gestation:

- Abnormalities of development and pregnancy
- Prolapse of vagina, cervix and rectum

Obstetrics:

- Approach to an obstetrical case
- Prevalence, causes and consequences of dystocia
- Maternal dystocia: causes and treatment
- Fetal dystocia in livestock: delivery per vaginam
- Defects of presentation, position and posture in livestock; delivery by foetotomy
- Defects of presentation, position and posture in livestock; delivery by caesarean section
- Dystocia and disoders of pregnancy in horse
- Manipulative delivery per vaginam in dogs and cats
- Caesarean section in dogs and cats
- Injuries and diseases consequent upon partutition
- Castration and cryptorchid surgery



Course Descriptor VTMD414 Veterinary Obstetrics and Theriogenology

Subfertility:

- Infertility in the cow due to functional and management deficiencies
- The metritis complex in cattle
- Specific infectious diseases causing infertility and subfertility in cattle
- Veterinary control of herd fertility in intensively managed dairy herds
- Veterinary control of herd fertility in pastoral dairy herds
- Veterinary control of reproduction in beef herds
- Fertility and infertility in Bos indicus
- Infertility and abortion in sheep and goats
- Management of breeding in small-scale poultry production
- Equine infertility and stud medicine practice
- Infertility in the mare
- Infertility in the bitch and gueen
- Pharmacological control of reproduction in the dog and cat

Male animal

- Evaluation of the fertility of breeding males
- Abnormalities affecting reproductive function of male animals

TOTAL HOURS	45
Plus RECOMMENDED INDEPENDENT STUDY HOURS	15
TOTAL COURSE HOURS	60

7. RECOMMENDED REFERENCES

Core text/s:

David E. Noakes, Edited by Timothy J. Parkinson, Edited by Gary C.W. England (Editors): Veterinary Reproduction & Obstetrics, 10th Ed, Saunders. (2018).

Library + online resources:

Open Educational Resources: