



UNIVERSIDADE DE LISBOA
Faculdade de Medicina Veterinária

Reproduction and Obstetrics

Curricular Year: 4th

Duration: Annual

Credits: 10 ECTS

Teachers: Luís Lopes da Costa (CCP), Luisa Mateus (R), Ana Catarina Torres, Elisabete Silva, Gonçalo Pereira, Ricardo Bexiga.

Contact Hours: 141H Total.

64h Lectures; 70h Practical's and laboratory; 7h practical and theoretical exams.

Learning objectives:

Students should understand the biology of key reproductive events and principles of reproductive management in companion animals, equine and production species (ruminants and swine). They should know how to perform a reproductive clinical examination, integrating anamnesis and symptoms, in order to establish a diagnostic plan, selecting adequate complementary exams. They should know how to interpret diagnostic results, to prescribe adequate therapeutics and prophylactic measures, and to project a prognosis and an estimate of costs of intervention. Particularly, students should know how to perform the andrological, gynaecological and obstetrical examinations, diagnose pregnancy, assist parturition and treat the most frequent reproductive disorders. Also, to evaluate the reproductive performance of a herd and to design a reproductive management plan, identifying the critical points of the production system that impact on fertility.

Program contents:

Theoretical:

Comparative study: 1. Reproductive and estrous cycle; 2. Estrus detection; 3. Reproductive technologies; 4. Pregnancy; 5. Parturition, puerperium and lactation, neonatology; 6. Reproductive function in the male.

Species related: 1. Control and manipulation of estrous cycle; 2. Disorders of reproductive and estrous cycles. 3. Contraception and pregnancy interruption; 4. Pathology of pregnancy; 5. Dystocia and obstetrical procedures; 6. Puerperal related diseases; 7. Infectious diseases; 8. Genital disorders; 9. Infertility; 10. Herd Reproductive management.

Practical:

1. Breeding soundness evaluation of the male; 2. semen collection and evaluation; 3. semen processing; 4. Cow genital palpation, pregnancy diagnosis and cervical catheterization; 5. Gynaecological examination; 6. Complementary examinations; 7. Tocology and fetotomy; 8. Calving associated diseases and udder health (cow). 9. Evaluation of herd reproductive performance; 10. Estrous cycle synchronization programs; 11. Clinical cases.

Bibliography:

Presentations (PowerPoint) of classes and texts by teachers;

Current Therapy in Large Animal Theriogenology 2. Section I Equine Theriogenology. 2nd edition, 2006, Saunders; Print ISBN: 9780721693231; E-ISBN: 9781437713404; Editors: Youngquist R, Threlfall W



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Ettinger`s Textbook of Veterinary Internal Medicine. 9th edition, 2023, Elsevier. Print ISBN: 9780323779319; E-ISBN: 9780443116155; E- ISBN: 9780323779289; Editors: Ettinger S J.; Feldman E C.; Cote E

Veterinary Reproduction & Obstetrics, 10th Edition, 2019, Elsevier; Print ISBN Number: 9780702072338; E-ISBN: 9780702072383; Editors: David E. Noakes & Timothy J. Parkinson & Gary C. W. England

Pathways to pregnancy and parturition. 2nd edition, 2003. Pullman Wash: Current Conceptions. Print ISBN: 0965764818; Editor: Senger PL

Assessment:

The assessment of the theoretical component will be accomplished through a mid-term written test (optional) and an exam at the end of the curricular unit, including short-answer questions based in clinical cases, multiple-choice questions (MCQ) and true-false questions.

The practical component will be evaluated:

- a) In a continuous assessment during practical classes, including Individual registration (attendance sheet) and a quiz in the beginning of each practical class, contributing to 25% of final practical evaluation score.
- b) In practical examinations after specific thematic units (3 exams) where students perform a practical test drawn from a set of tests previously known and accomplished in practical classes. Each practical exam has a 25% ponderation in the final practical evaluation score.

Methodology used for final classification

For students, who attend the mid-term test, the final classification is obtained using the formula $FC = 0.2 T + 0.4 P + 0.4 FE$, where FC = final classification; T = mid-term test; P = practical evaluation; FE = final exam.

For students, without mid-term test approval, the final classification is obtained using the formula $FC = 0,4P + 0.6FE$.

For students without approval in the practical evaluations the final classification is obtained using the formula $FC = 0.2 T + 0.4 P + 0.4 FE$ or $FC = 0,4P + 0.6 FE$, depending on the approval in the mid-term test.