



UNIVERSIDADE DE LISBOA
Faculdade de Medicina Veterinária

Farm Animal Clinics and Herd Health

Curricular Year: 5th

Duration: Annual

Credits: 12 ECTS

Teachers: George Stilwell (CCP e R), Gonçalo Ortega, Gonçalo Pereira, Inês Prata, Manuel Ferreira Joaquim, Ricardo Bexiga, Tiago Grosso.

Contact Hours: 175H Total.

Theoretical-25h; Field work (TC)-120h; Seminars (S)-15h; Tutorial teaching (OT)-15h.

Learning objectives:

The main objective is to develop in the student the ability to aggregate and integrate the knowledge acquired in previous courses, in order to prepare him for the execution of a complete and systematic clinical examination, for the enunciation of differential diagnoses, for the definition of the best therapeutic protocol and for the establishment of appropriate preventive measures, always maintaining an approach that encompasses the safeguarding of animal health and welfare, production and farm economics and food safety and public health. In the area of Herd Medicine, the student should be able to design and apply preventive medicine strategies for production diseases and official health policy strategies for the prevention, control and eradication of notifiable diseases. The student will be asked to act on real clinical cases (hands-on), and to visit commercial farms in the field of group medicine.

Program contents:

Lectures - The theoretical classes in the Livestock Species Clinic will include topics not covered in previous years' subjects: namely the clinical approach to ruminant and pig diseases, specific treatments and procedures.

Tutorial teaching - involves two components:

- a) Livestock Species Clinic - discussion of clinical cases and weekly reports by the students.
- b) Population Medicine – evaluation and discussion of various topics through the assembly of real sanitary cases (Problem Based Learning).

Practical teaching

Ambulatory clinic activities will operate through planned visits or assistance to cases referred by practitioners. The activities will take place on dairy farms, beef cattle (suckler cows and fattening units), small ruminants and pig farms. The Population Medicine activities will consist of scheduled visits to cattle, pigs and poultry farms.

Bibliography:

- Veterinary Medicine: A textbook of the Diseases of Cattle, Horses, Sheep, Pigs and Goats. 2016. Constable, P.D. et al. (Eds). 11th Edition. Saunders Elsevier.
- Herd Health, Food Animal Production Medicine, 3Rd Ed, Radostits, O.M. 2001

Others



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- Rebhun's Diseases of Dairy Cattle. 2018. Editor(s): Simon F. Peek, Thomas J. Divers. Third Edition. Elsevier. ISBN 9780323390552. <https://doi.org/10.1016/B978-0-323-39055-2.05001-4>
- Goat Medicine. 2009. Eds. Mary C. Smith, David M. Sherman. Second edition. Wiley-Blackwell. <https://doi.org/10.1002/9780813818825>
- Sheep and Goat Medicine 2012 Editor(s): D.G. Pugh, A.N. Baird. Second Edition. W.B. Saunders. ISBN 9781437723533. <https://doi.org/10.1016/B978-1-4377-2353-3.10058-7>
- Diseases of Poultry, 14th Ed, Glisson et al. 2020
- Diseases of Swine, 11 Ed, Zimmerman et al, 2019
- Biosecurity in Animal Production and Veterinary Medicine (2020) Filip van Immerseel and Jeroen Dewulf (Eds) CABI Publishing

Assessment:

Evaluation of the theoretical and theoretical-practical component (T; 60% of the final grade):

-Written exam with quick answer questions (short answer, multiple choice, true or false, text with spaces to fill in).

-Examination based on Case Studies (image-based responses).

Evaluation of the practical component (P; 40% of the final grade) through two elements:

-After each rotation, students will be evaluated using a set of attributes aligned with an outcome-based competency framework. The three dimensions of attributes are: universal attributes; specialized attributes; and service-specific attributes. Performance will be scored on a five-point scale taking into account competence, knowledge, tools and attitudes essential to the companion animal clinician: Level 1: Unsafe / Inappropriate; Level 2: Emergent; Level 3: Advanced; Level 4: Competent; Level 5: Proficient. In addition, these assessments contribute to students' final grades as they are transformed into grades ranging from 1 to 20. Students must successfully complete all rotations (obtain > level 3). In the event of an unsuccessful rotation, the student will be required to perform an additional rotation to fulfill the necessary requirements. Worth 20% of the final grade.

-All cases observed during the rotations must be recorded in a table, and the student must be the primary caregiver in 25 of them. These should demonstrate the student's competence in the management and understanding of a variety of common conditions within clinical practice and the appropriate scientific-technical use. This table includes details such as case number, species/age/reproductive status, date, student involvement (observer or primary caregiver), type of case, procedures performed for diagnosis and treatment, recommended measures for the prevention of further cases, and additional case notes. The cases can be Herd Health in which the case is asked to be characterized, the number of animals involved, the measures aimed at controlling the situation and recommended prophylactic measures. The evaluation of these records is worth 20% of the final grade

The final grade will be the weighted average of each item obtained through the formula: $FINAL\ GRADE = 0.6 T + 0.4 P$

The final grade will only be effective if the grade of each component is equal to or greater than 9.5 (on a scale of 1 to 20).



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A maximum increase of 1.0 points will also be considered in the final grade for the valuation of two reports on topics developed within the scope of the fieldwork carried out in poultry and pig farms.

It should be noted that the final note will only be released if it is verified that all activities related to livestock species recorded in the Logbook have been completed.

The student evaluation is also important to assess the efficiency of the teaching-learning methodologies, in compliance with the UC objectives, and to allow future adequate adjustments on the teaching methodologies and/or on the assessment of student's knowledge and skills.

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.