

Course size (nominal values; actual values may depend on programme)

Credits 5.0 Study time 150 h Contact hrs 75.0 h

Course offerings in academic year 2018-2019

A (year) Dutch

Lecturers in academic year 2018-2019

Martens, Ann	D110	lecturer-in-charge
Gasthuys, Frank	D110	co-lecturer
Oosterlinck, Maarten	D110	co-lecturer
Pille, Frederik	D110	co-lecturer
Schauvliege, Stijn	D110	co-lecturer

Offered in the following programmes in 2018-2019

	crdts	offering
Master of Veterinary Medicine in Veterinary Medicine (main subject Companion Animals)	5	A
Master of Veterinary Medicine in Veterinary Medicine (main subject Horse)	5	A
Master of Veterinary Medicine in Veterinary Medicine (main subject Pig, Poultry and Rabbit)	5	A
Master of Veterinary Medicine in Veterinary Medicine (main subject Research)	5	A
Master of Veterinary Medicine in Veterinary Medicine (main subject Ruminants)	5	A
Joint Section Master of Veterinary Medicine in Veterinary Medicine	5	A

Teaching languages

Dutch

Keywords

Surgery, domestic animals

Position of the course

The goal of this course is to provide an insight into the pathogenesis, symptomatology, diagnosis, treatment and prognosis of surgical disorders of specific organ systems in small and large animals. The student should finally be able to implement the acquired knowledge into the critical evaluation and solving of a clinical problem. This final attainment level is in the line of the acquired bachelor education and aims not only to assimilate but also to apply the acquired knowledge.

Contents

This course focuses on the discussion of the pathogenesis, symptoms, diagnosis, treatment and prognosis of the surgical disorders of the different tissue systems in domestic animals. First, the methodology and principles of the orthopaedic examination are discussed. The attention is then focused on the surgical disorders of the muscles, tendons and bones (fracture occurrence, healing, healing disorders, fracture management, infections of the bone,...) followed by the disorders of joints (luxation, distortion, wounds, arthritis, OCD,...), blood and lymphatic vessels and nerves. The principles of shock management and blood transfusion are also discussed; The last part of the course focuses on the principles of the ophthalmic examination and on the ocular disorders. A cross-species discussion of these different surgical subjects will always be held, but depending on the prevalence of a type of lesion, one species will be used as an example.

The different members of the academic and technical staff will guide the students in the

clinic of surgery and anaesthesiology of domestic animals to help them translate their theoretical knowledge into a clinical application. This will be done through demonstrations on clinic-owned animals (for example: how to place bandages...) and through an active participation in the clinical examination and treatment of the patients presented to the clinic (large animals). These include both the hospitalised animals and the patients referred for lameness examination. Finally, clinical demonstrations will be held on a weekly basis throughout the year. During these 30 minute sessions, a clinical case is presented to students in the form of slides or movies followed by an interactive discussion of the case.

Initial competences

Knowledge of normal anatomy, physiology, pathology and pharmacology of animal diseases are required to start this course. A basic knowledge of the different medical imaging modalities is required as well. These levels can be attained when following the different courses of the bachelor education including Physiology, Topographic anatomy, Pharmacology, Pathology Patho-physiology and Medical imaging. Subscribing for this course is only possible after obtaining a bachelor degree in veterinary medicine or when enrolled in a GIT trajectory in veterinary medicine between the third bachelor and first master year.

For students who are not currently enrolled in the UGent veterinary medicine studies is subscription for this course only possible if they comply with the majority of final competencies of the bachelor in veterinary medicine degree and after approval of the curriculum commission.

Final competences

- 1 To know the basic principles of an orthopaedic examination and be able to recognise and localise a lameness under clinical circumstances
- 2 To know and understand the basic principles of the ophthalmic examination and to understand how the instruments to perform that examination work
- 3 To have knowledge and insight in the most important general surgical disorders of muscles, tendons, bones, joints, blood and lymphatic vessels, nerves, the gastrointestinal system and the eye in small and large animals
- 4 The acquired knowledge should allow the student to recognise a general surgical disorder of an organ system and know what are the basic treatment principles.
- 5 To be able to evaluate a clinical problem from different perspectives and come to a correct plan of action (multiperspectivism)
- 6 To be able to evaluate in a clinical situation which part of the diagnosis and/or treatment can be performed by a first-line veterinarian, and when it is advisable to refer the patient to a more specialised institution
- 7 To be convinced of the need of life long learning

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Demonstration, lecture, clinic

Extra information on the teaching methods

The theoretical education is assured during lectures using appropriate didactical material (images, video's,...). The theory is continuously illustrated with practical examples for the different animal species. Examples of exam questions are also given. The goal of the education in the clinic is to demonstrate to the students how the theoretical knowledge can be translated into a practical application.

Learning materials and price

The course material consists of a syllabus and handouts of the powerpoint presentations which are used during the lectures. The latter ones are free available on Minerva in pdf format. A referral towards handbooks and electronic information is made during the lectures. Estimated total cost: 25 euro

References

Equine surgery, Ed.: J. Auer, J. Stick, 2011
Veterinary Surgery Small Animal Volumes I & II, Ed: Tobias & Johnston, 2012
Lameness in horses. Ed.: G. Baxter, 2011

Course content-related study coaching

No specific tutoring is provided for the theoretical part of the course. Eventual problems can be discussed with the tutor by personal contacts or electronic ways.

Evaluation methods

end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Written examination, oral examination

Examination methods in case of periodic evaluation during the second examination period

Written examination, oral examination

Examination methods in case of permanent evaluation

Participation, skills test

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

Written exam (A): periodic evaluation. There is a written examination with the possibility of an oral defence. The theory and practical examples discussed during the colleges form the content of this examination. A good basic knowledge and logical thinking are important to succeed for this examination.

Practice (B): Presence and active participation of the student during the clinics.

Calculation of the examination mark

- The student can only succeed for the examination when he/she has completed his/her two full weeks of clinics

- The number of points per questions depends on the extent of the question and on whether it evaluates basic rather than more specialised knowledge. The student succeeds for the course as soon as a score of 10/20 is obtained.

Facilities for Working Students

No special facilities provided