



SLUkurs

Syllabus

PVSo157 Animal locomotion- physiology, pathology, diagnostics and treatments, 3.0 credits

Syllabus approved

2018-10-31

Subjects

Animal Science

Education cycle

Third cycle

Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

English

Prior knowledge

Admitted to a postgraduate program in animal science, biology, veterinary medicine, food science, nutrition, nursing, or related subjects, or to a residency program in veterinary science.

Objective, including learning outcomes

After completing the course the student shall be able to:

- describe briefly the anatomy and physiology of the locomotor apparatus
- describe how to assess movement in sound and lame animals
- describe techniques for motion analysis in lame animals that can be used in clinical practice.
- describe a lameness workup in different companion and production animals
- describe a brief overview of the pathophysiology of common orthopaedic disorders in animals
- describe a brief overview of imaging techniques for common orthopaedic disorders in animals
- describe a brief overview of treatments/rehabilitation options for common orthopaedic disorders in animals
- describe welfare issues related to locomotor problems in production, companion and leisure animals in animals

Content

The course comprises lectures (one week) on and literature studies (one week) of the physiology and pathology of the locomotor apparatus (with comparative aspects from the human field), how to assess lameness, diagnose and treat common orthopaedic problems in our animals. By lectures, seminars and practical training the background and principles of objective tools for assessment of lameness in clinical practice and research will be presented. These tools will be demonstrated and taught practically. Welfare issues related to locomotor problems in animals will be covered in lectures and seminars.

Requirements for examination

The participating students will be examined by giving a presentation during the course where they will:

- present a brief and relevant literature review of a research question of their choice, within the field of orthopedics in animals.
- explain one or several techniques to evaluate orthopedic pain (biomechanics, pain scoring) that can be used to investigate the question.
- Present and discuss pain and animal welfare issues related to the research question.

Additional information

There will be one week of lectures and practical work and one week for the literature study.

Responsible department

Department of Anatomy, Physiology and Biochemistry