



# SLUkurs

## Syllabus

**PVSo165 Exercise physiology and rehabilitation for performance and injury prevention, 7.0 credits**

## Syllabus approved

2019-11-07

## 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 or related subjects, or to a residency program in veterinary science.

## Objective, including learning outcomes

The objective of this course is to provide the student with the theoretical, and to some extent practical, knowledge in exercise physiology and rehabilitation needed

to evaluate training methods, mainly in horses and dogs.

On completion of the course, the student shall be able to:

- describe, in detail, ways to measure progression in training and relationships between physiological markers and performance;
- describe and compare methods to assess training effects
- describe how tissues of the locomotor system respond to varying loads and to injury and healing;
- describe, in detail, the impact of different training programmes on the animal's locomotion and circulatory systems;
- use some common techniques to measure physiological response to training
- critically evaluate scientific documentation in the area of rehabilitation and exercise physiology and justify the importance of a scientific approach in the training of animals;
- reflect on issues regarding ethics, animal welfare and workplace safety that can arise during training, competition and rehabilitation.

## **Content**

The course is given in the form of lectures, seminars, independent studies, case studies, practical demonstrations, practical and theoretical exercises on both dissection material and live animals. Scheduled activities make up approximately 40 % of the course (75 h). The remaining time is used for independent studies as literature studies and work with the examination essay. Parts of the course, approximately 50 %, can be taken from distance.

## **Requirements for examination**

Practical examination, written examination and written essay according to instructions

## **Additional information**

The course will be given in cooperation with the master course "Exercise physiology and rehabilitation for performance and injury prevention, BI1358 15 credits".

## **Responsible department**

Department of Anatomy, Physiology and Biochemistry