

SLUkurs

Syllabus

PVSo156 Nutritional Physiology, 7.5 credits

Syllabus approved

2018-09-28

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:

- 1) Explain important anatomical, physiological and metabolic differences and

similarities between species, and be able to evaluate its impact for different feeding strategies, and be able to suggest alternative feeding strategies for a given species

2) Explain the function of nutritional important vitamins and minerals in the metabolism

3) Describe central endocrine systems affecting the regulation of metabolism

4) Evaluate different factors affecting energy metabolism and energy requirements in animals

5) Explain nutrient metabolism on cell and organ level in different animal categories and be able to evaluate its impact in different nutritional scenarios

Content

The course focuses on studies of metabolism and nutrient utilization in animals on cell-, organs and organism level. Important differences and similarities in nutrient metabolism in different animal species will be discussed during the course.

The course contains lectures and group work including evaluation and presentation of scientific texts. Part of the course is web-based. Compulsory course tasks occur as e.g. exercises, seminar and case studies.

The course content corresponds to 5 weeks full-time studies.

Requirements for examination

Passed written and oral examination. Passed participation in compulsory course modules.

Additional information

The course assumes good prior knowledge within animal nutrition and animal physiology.

Responsible department

Department of Animal Nutrition and Management