

# SLUkurs

## Syllabus

**PVSo114 Advanced Nutritional Physiology, 5.0 credits**

## Syllabus approved

2014-11-12

## 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 carbohydrate, protein and lipid metabolism on organ level in different

animal categories (see additional information)

- describe different factors affecting energy metabolism and energy requirements in animals
- describe central endocrine systems affecting the regulation of metabolism
- explain the function of nutritionally important minerals in the metabolism
- describe the function of vitamins in the metabolism
- differ between groups of enzymes and describe the functional mechanism.

## **Content**

The course offers a deeper knowledge in the metabolism and utilization in animals, mainly on cell- and organ level through a mix of lectures, exercises and group discussions.

## **Requirements for examination**

Passed written or oral examination.

## **Additional information**

It is recommended that the student has knowledge equivalent to 15 credits within the area of nutritional physiology and feed science. With "animals" means primarily pigs, dogs, cats, horses, poultry and cattle.

## **Responsible department**

Department of Animal Nutrition and Management