



# SLUkurs

## Syllabus

### **PVS0048 Advanced Veterinary Epidemiology, 8.0 credits**

#### **Syllabus approved**

2009-02-17

#### **Subjects**

Veterinary Medicine

#### **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**

- \* Degree in animal science or veterinary medicine or similar background.
  - \* Basic biostatistics.
  - \* Basic epidemiology: study designs; measures of disease frequency; screening tests; measures of association; confounding and interaction; linear and logistic regression.
- The course is intended for PhD-students, but others may be accepted at own cost and if places are available.

## **Objective, including learning outcomes**

After completing the course, the participants should be able to skilfully and carefully use relevant advanced multivariable methods in epidemiological research.

## **Content**

The course will cover: structured approaches to data analysis using linear and logistic regression as examples, models for count and time to event data, generalized linear mixed models, and repeated measures data.

The course will consist of two 1-week didactic modules, with a mixture of lectures and laboratory sessions. A major assignment following the first module and work on the student's own data integrated into and following the 2nd module is also part of the course.

## **Requirements for examination**

Successful completion of assignment #1 (building one, single level, complex regression model based on provided datasets) and #2 (submitting a report on analyses of own data, including a brief synopsis of their own research, including a statement of the goals of the analysis).

## **Additional information**

The course will be held at a course hotel (Biri, Norway, <http://www.honne.no>, 13-17 September and 15-19 November 2010). The course is a common Nordic course funded partly by NOVA, so course fee and accommodation will be covered for PhD-students from NOVA-universities. The course fee will also be covered for other Nordic students and BOVA-students, but other participants will have to pay both a course fee and the accommodation costs. Further information can be found at <http://www.nvh.no/Venstremeny/Analyssetjenester/Centre-for-Epidemiology-and-Biostatistics/EpiNOVA-postgraduate-course-in-veterinary-epidemiology-2010/?id=10748>, [http://nova-university2.slu.se/novadb/documents/application/07-090402-307/plan/07-090402-307\\_](http://nova-university2.slu.se/novadb/documents/application/07-090402-307/plan/07-090402-307_)

## **Responsible department**

Department of Clinical Sciences