



Sveriges lantbruksuniversitet  
Swedish University of Agricultural Sciences

# SLUkurs

## Syllabus

**PVS0043 Infectious Disease Modelling, 1.0 credits**

## Syllabus approved

2008-10-08

## 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

Participants are expected to come to the course with a basic understanding of infectious-disease epidemiology and diagnostic-test terminology.

The course is the Part II of the "Infectious Disease Modeling" component of the Cornell workshop "Tools for Infectious-Disease Epidemiology: Diagnosis, Modeling and Risk" given as a summer course in epidemiological methods at the Cornell University, US.

## **Objective, including learning outcomes**

The course is designed for professionals and graduate students who need proficiency in infectious-disease epidemiology.

## **Content**

This is a three day intensive course which is designed to introduce participants to basic concepts and methods for setting up infectious disease models. The course will be a mixture of lectures and computer exercises. Practicals specifically include infectious diseases relevant to veterinary medicine (such as paratuberculosis, salmonella, BHV<sub>1</sub> and mastitis). The emphasis is deterministic modelling; some examples of stochastic models are also included.

After the course, participants will be able to: 1) contribute to the design of programs for disease control/prevention, 2) interpret/evaluate protocols and literature on these topics.

The course will be given by Yrjo Grohn and Ynte Schukken from the Cornell University.

## **Requirements for examination**

Active participation during the three day course.

## **Additional information**

The programme Model Maker will be used. The programme will be installed on computers in the computer lab of the SLU.

Previous versions of the course have been offered at the Cornell University and at the ISVEE conferences.

Time 12-14 January, 2009

The number of participants is limited to fifteen.

The course is part of a SLU strategy to increase activities in the area infectious-disease epidemiology.

## **Responsible department**

Department of Biomedical Sciences and Veterinary Public Health