



Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

SLUkurs

Syllabus

PVG0022 Epidemiology and Ecology of Infectious disease, 1.5 credits

Syllabus approved

2012-12-11

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

Degree in veterinary or animal science, or similar background in biology. Accepted into a PhD program in animal science or veterinary medicine or other programs in biology or medicine.

Objective, including learning outcomes

The objective of this course is to gain a deeper understanding of the ecology and epidemiology of infectious diseases.

Content

Several international outbreaks of infectious diseases during the last decade have highlighted the need to use a holistic approach to successfully fight and control infectious diseases. This approach embraces biology, infectious medicine, epidemiology, ecology etc. A similar approach is reflected in the One Health concept, which is a strategy for expanding interdisciplinary collaborations in all aspects of health care for humans, animals and the environment.

This course will use a systemic approach to discuss infections from an epidemiological and ecological perspective, with focus on veterinary medicine.

Examples of topics that will be discussed are infections in ecosystems and how to monitor them, infectious disease epidemiology and modeling, vectors, wildlife and antibiotic resistance in different ecosystems.

Requirements for examination

Successful completion requires 100% attendance and a short written and oral presentation of the course assignment.

Additional information

Please note that the course is given at full-time (100%) during March 11-13, and March 21-22.

The course is given within the Research School for Domestic Animals in a Changing World. It is open for all PhD-students with the prerequisites, but students from the Research School have priority. Maximum 20 students will be accepted and the course will only be given if at least five students participate.

Before the course starts, the participants shall write a few lines about their PhD project and send to the organizers. A video link can unfortunately not be provided for students outside Uppsala.

Responsible department

Department of Biomedical Sciences and Veterinary Public Health