



## Syllabus

### VM0012.1 Herd and population medicine, 18.0 credits

#### Populationsmedicin

Version 1 in Slukurs. Corresponds to version 1 in Ladok

#### Syllabus approved

16 November 2004

The version applies to students admitted from spring 2005 to spring 2008

The version is not a module version

#### Subjects

Veterinary Medicine

#### Education cycle

No specific cycle

#### Modules

Title	Code	Credits
Single module	0101	18.0

#### Advanced study in the main field

#### 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

Swedish

## **Prior knowledge**

Passed examinations from the courses in Introduction to Veterinary Anatomy, Basic Medical Biology, and Introduction to Academic Studies and Scientific Methodology. Participation in Structure and Function of the Body Systems 1st year.

## **Objectives**

The objective is that the students should understand disease occurrence in the individual, by studying disease in populations. The course shall provide knowledge about genetic and environmental factors of domestic animals that influence animal health, behaviour and animal welfare, and knowledge about how diseases occur in populations. The course shall also provide knowledge about which measures that can be taken to prevent disease and abnormal behaviour and contribute to a good animal health. The student shall further be provided with a scientific approach to the subject population medicine.

## **Content**

The course integrates the subjects epidemiology, statistics, animal breeding, animal hygiene and ethology, with the following components:

- The function of domestic animals within different production systems
- Normal and abnormal behaviour in animals, and the association between stress-behaviour-animal health
- Recording of environmental factors and how they influence health and behaviour
- Descriptive and comparative epidemiological methods to form hypotheses and to test these regarding the causes of disease
- Prerequisites for prophylaxis, control and eradication of diseases in populations
- Genetic selection for characteristics and diseases that are influenced by both inheritance and environment
- Analysis and identification of heritable diseases
- Breeding programs for good animal health, production and function
- Herd visits to elucidate the association between environment, animal health and natural behaviour within different animal species
- Ethics and animal protection from an international perspective
- Basic statistical methods with relevance for the contents listed above

In the course is included multidisciplinary activities as parts of theory of knowledge integrated with statistics and animal protection and veterinary legislation.

## **Implementation**

The course consists of lectures, exercises and group activities.

## **Examination**

### **Requirements for examination**

Assignments and written/oral exams.

The requirement for the course is approved exams and assignments, and participation in compulsory activities.

- If the student fails a test, the examiner may give the student a supplementary assignment, provided this is possible and there is reason to do so.
- If the student has been granted special educational support because of a disability, the examiner has the right to offer the student an adapted test, or provide an alternative assessment.
- If changes are made to this course syllabus, or if the course is closed, SLU shall decide on transitional rules for examination of students admitted under this syllabus but who have not yet passed the course.
- For the examination of a degree project (independent project), the examiner may also allow the student to add supplemental information after the deadline. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

## **Additional information**

- The right to take part in teaching and/or supervision only applies to the course date to which the student has been admitted and registered on.
- If there are special reasons, the student may take part in course components that require compulsory attendance at a later date. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

## **Responsible department**

Department of Clinical Sciences

### **Cooperating departments:**

Department of Animal Breeding and Genetics

Department of Animal Environment and Health

## **Supplementary Information**

*Finalized by:* Programnämnden för veterinärprogrammet

*Replacement course:* VM7186