



Sveriges lantbruksuniversitet  
Swedish University of Agricultural Sciences

# SLUkurs

## Syllabus

**PVSo136 Environmental impact from animal production, 2.0 credits**

## Syllabus approved

2016-05-26

## 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. Admittance to a postgraduate program in social sciences with a dissertation topic related to the environmental effects of animal production would also qualify for course participation.

**Objective, including learning outcomes**

On completion of the course the student shall be able to describe and discuss the direct and indirect environmental effects associated with animal agriculture with respect to:

- Their relative importance and magnitude
- How they relate to the own area of research
- The current status of mitigation strategies in different production systems

**Content**

The course is built around the feed cycle, i. e. the production of feed crops; their storage, handling and feeding; and the recirculation of animal wastes to new feed crops. The contribution from each step as well as the aggregated environmental impact for entire production systems of different intensities are highlighted. Animal-specific properties of dairy and beef cattle, horses, pigs and poultry that are linked to environmental issues are covered. Greenhouse gases and losses of P and reactive N are the emphasized issues. Self-supplying systems serve as a model, but the actual situation with global trade of feeds, fertilizers and other inputs is also covered. The course time is equally divided between lectures and group work.

**Requirements for examination**

Approved group work

**Additional information**

For application: [www.slu.se/gs-vmas-courses](http://www.slu.se/gs-vmas-courses)

**Responsible department**

Department of Animal Nutrition and Management