



Sveriges lantbruksuniversitet  
Swedish University of Agricultural Sciences

# SLUkurs

## Syllabus

**PNS0028 Soil Sampling Methodology and Data Evaluation, 7.5 credits**

## Syllabus approved

2006-10-05

## Subjects

Soil 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

The equivalent of: 60 Swedish University Credits (SUC) in Soil science of which at least 20 SUC of advanced (C-level) courses, 5 SUC of basic (A-level) courses in Mathematics and 5 SUC of basic courses in Statistics.

**Objective, including learning outcomes**

To provide knowledge in the heterogeneity of soils, designing sampling programmes, soil sampling techniques, handling and storage of samples, and geostatistical evaluation of soil data.

**Content**

- Heterogeneity of soils; differences between soils of different origin
- Soil sampling strategies suitable for different kinds of investigations; determining average concentrations of elements, pool sizes of elements and time trends in concentrations or pool sizes of elements
- Soil sampling techniques; theory and field exercise
- Soil solution sampling techniques; theory and field exercise
- Handling and storage of soil samples
- Classical and geostatistical evaluation of soil data
- Project work involving sampling and evaluation of soil data.

**Requirements for examination**

Written examination, project work.

**Additional information****Responsible department**

Department of Soil and Environment