Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

Syllabus

MV0103.1 Soil Science for sportfields, 7.5 credits

Markvetenskap för sportytor

The course is given as course independent of study programme

Syllabus discontinued 16 April 2009

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

5 October 2001

The version applies to students admitted from spring 2001 to spring 2008

The version is not a module version

Subjects

Soil science

Education cycle

First cycle

Modules

Title	Code	Credits
Single module	0101	7.5

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

Appropriate qualifications plus at least six months' practical experience of sports field construction or management.

Objectives

On completion of the course, students will have a deeper knowledge of the different components of the soil and their composition; knowledge of physical, chemical and biological properties of the rootzone of importance for sports field management; and knowledge of the effects of different management practices on properties of the rootzone. Students will also acquire an understanding of the soil-plant-atmosphere system and of the effects of different practices on the external environment.

Content

Soil components: minerals, organic matter, water and air. Energy exchange between the soil and the environment and thermic properties of the soil.
Properties and function of the pore system, water retention and movements, gas transport and temperature conditions.
Soil pH and pH buffering ability.
Soil organic matter, organic soil conditioners – properties, origins etc.
Behaviour of nutrients in soil and exchanges with the atmosphere and the water system.
Microorganisms in the soil.
Effects of management practices on soil properties.

Implementation

Lectures ca 30 h
Laboratory work and seminars (compulsory) ca 35 h
Project work (compulsory)ca 40 h
Total ca 105 h

Examination

Requirements for examination

Written examination comprising application of fundamental concepts and relationships, compulsory practical assignments and written reporting of a course project.

To obtain the credits for the course, students must have passed the written examination, passed the compulsory parts of the course and submitted an approved project report.

- 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

This course is primarily an extension course for people with prolonged practical experience of constructing and managing grassed sports fields. Candidates are assumed to have a working knowledge of soil science terms and processes.

- 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 Soil and Environment

Supplementary Information

Finalized by: Programnämnden för agronomprogrammet