

Syllabus

BI1256.1 Field course in crop production, 7.5 credits

Fältkurs i växtproduktion

The course is given Agriculture Programme - Soil/Plant and Crop Production (BSc)

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

19 November 2015

The version applies to students admitted from spring 2017 to autumn 2018

The version is not a module version

Subjects

Biology/Agricultural science

Education cycle

First cycle

Modules

Title	Code	Credits
Single module	0101	7.5

Advanced study in the main field

First cycle, entry requirements only from upper secondary school (G1N)

Grading scale

5:Pass with Distinction, 4:Pass with Credit, 3:Pass, U:Fail

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

Knowledge equivalent to general entry requirements and specific entry requirements according to field-specific entry requirements A11: Biology 2, Physics 1a or Physics 1b1 + 1b2, Chemistry 2 and Mathematics 4.

Objectives

Aim

The course aims to give an overview over cropping system in Sweden and factors that influence the production with a focus on winter survival and establishment. Sustainable development and sustainable use of the natural resources are brought up in this perspective. The course also intends to give an insight in field trials as a research method and possible professional roles for soil/plant agronomists.

Intended learning outcomes

Upon completion of the course, the student should be able to:

- describe the biological preconditions for crop production and yield limiting factors
- account for cultivation measures during spring and early summer in the crop production
- interpret simple experimental designs and know at a general level to how the establishment and development of the crops are studied in field
- identify commonly occurring weed and plant crops in early developmental stages
- account for characteristics and lifestyles of the most common groups of plant pathogens and insect pests
- describe how Swedish cropping systems have been developed through the history
- suggest and justify sustainable crop sequences for different aims that are feasible in practice

Content

The course is to a large extent based on exercises in the field. At study visits at experimental and ordinary farms cultivation technique and crop sequences with special focus on cultivation measures during spring and early summer will be discussed. During field exercises, winter survival, establishment, development, growth and occurrence of weeds and pests are studied as well as the importance of crop sequences. Field trials are used for studies of experimental technique. The exercises

include determination of cultivated plants, weeds, pests and their natural enemies as well as field and lab studies of developmental stages of cultivated plants. In lectures, connections between observations made in the field and scientific theory are discussed.

Compulsory components

Exercises, laboratory sessions, seminars and study visits are compulsory components.

Formats and requirements for examination

- Passed written tests and passed written and oral presentations of project work.
Passed participation in compulsory course modules.

- 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 course is scheduled together with the course Ecology, 7.5 credits.

- 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 Crop Production Ecology

Cooperating departments:

Department of Forest Mycology and Plant Pathology
Department of Ecology

Supplementary Information

Finalized by: Programnämnden för utbildning inom naturresurser och jordbruk
(PN - NJ)

Biology Area: Other Biology Courses

Replacement course: BI1003