



Syllabus

BI0719.1 Biology and production of agricultural plants, 10.0 credits

Åkerväxternas produktionsbiologi och odlingsteknik

The course is given as course independent of study programme

Syllabus discontinued 12 August 2008

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

30 November 2006

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

The version is not a module version

Subjects

Biology/Agricultural science

Education cycle

Second cycle

Modules

Title	Code	Credits
Single module	0101	10.0

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

English

Prior knowledge

The equivalent of 180 credits including 90 credits biology. English skills equivalent to English A from upper secondary school.

As an alternative to the above: Equivalent of 120 credits including 60 credits biology with at least 10 credits in crop production science and at least 10 credits in plant physiology. English skills equivalent to English A from upper secondary school.

Objectives

After completing the course the student shall:

- be able to explain and discuss in depth biological processes related to biology of different crop species, weed biology and plant stand design
- be able to explain and estimate the effect of the environment on yield and harvest quality of agricultural crops
- be able to describe the origin of cultivated crops and different breeding methods
- be able to evaluate the effect of crop cultivars and cultivation measures on yield and harvest quality
- be able to describe the handling of harvest products for different purposes
- show ability to discuss and evaluate results from research within the area

Content

The primary direction of the course is towards crops adapted to temperate climate and offers deepening synthesis of knowledge within crop production science. The course gives a base for research within the field as well as training for the student's job career. Teaching is to a large part based on projects, both individual and in groups. In addition, literature seminars and an individual in-depth study, freely chosen by the student, are included in the course. Within the frame of the course contacts are made with companies within the agricultural field.

Lectures encompass:

- individual crop species and their use, e.g. for food, fodder and energy
- how factors in the environment and cultivation measures affect allocation and establishment of quality in individual crops
- experimental methods, planning and interpretation of results

Exercises encompass:

- development of harvest components and their importance for harvest yield and establishment of quality
- the quality of harvest products.

Implementation

Teacher present:

Lectures ca 25 h

Exercises (compulsory) ca 40 h

Project (compulsory) ca 10 h

Study visits (compulsory) ca 15 tim

Examination and course evaluation ca 10 tim

Students' own studies:

Project ca 80 h

Literature studies ca 90 h

In total ca 270 h

Examination

Requirements for examination

Written and/or oral examination, presentation of projects and exercises.

Approved according to Examination above and active participation in compulsory parts of the course.

- 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 can be read together with the course Plant Physiology, 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 Plant Biology

Supplementary Information

Finalized by: Programutskottet för naturresursprogrammet- biologi och mark och agronomprogrammets mark/växtinriktning

Biology Area: Botany