Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

Syllabus

BI0404.1 Crop production science II - sustainability, plant stand ecology and crop physiology, 15.0 credits

Växtodlingslära II - resurshushållning, beståndsekologi och produktionsbiologi

The course is given as course independent of study programme

Syllabus discontinued 30 October 2007

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

28 October 2002

The version applies to students admitted from spring 2003 to autumn 2008

The version is not a module version

Subjects

Biology

Education cycle

First cycle

Modules

Title	Code	Credits
Single module	0101	15.0

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

Swedish

Prior knowledge

The equivalent of 40 Swedish University Credits (SUC) in biology of basic (A-level) and intermediate (B-level) level, of which 10 SUC of Crop Production Science.

Objectives

The over-all objective of the course is to offer the student to gain professional skills to be used in forming future agriculture.

After completion of the course the student will:
-Have detailed knowledge of crop production management, of different crops and the climatic effects on yield and quality.
-Have full understanding of how environment and management effect the yield components and quality establishment the plant stands of different crops
-Be able to make relevant judgements of different cultivation systems by synthesis from perspectives like sustainability, food supply and environmental effects.
-Be skilled in the profession.

Content

The course is a continuation of Crop production science I – sustainability, plant stand ecology and crop physiology and offers a specialisation and synthesis of knowledge in crop production science.
The crops will now be followed to maturation and focus is on quality of the yield. At lectures the effect of environment and cultivation measures on allocation and quality in the plant and in the stand of different crops will be considered. The ecological interactions between crop, pests and weeds and effects of different cultivation systems.
There will be many opportunities for discussions, analysis and synthesis during the course.
The PBL-work from Crop production science I will continue and relate to the growth and development of the experiments in the greenhouse.
Crop production planning plus a simulation of how the weather-conditioned differences for crops in different year affect the yield in a comprehension based modelling exercise.
Laboratory work on yield quality.

Experimental practices.
Useful contacts with companies and organisations within the sector.
Current research of crop production science.
Crop production in a European perspective.

Implementation

Lectures ca 40 h
Meetings and presentations ca 80 h (compulsory)
Laboratory work ca 25 h (compulsory)
contacts with the sector ca 20 h
Plus an individual assignment.

Examination

Requirements for examination

Written and/or oral examination, presentation of exercises.

Participation in compulsory parts of the course, passed exercises and examinations.

- 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 applies problem based learning principles (PBL).
This course should be taken late in the programme, since it gives opportunities to synthesis of knowledge in crop production science and contiguous subjects

- 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

Supplementary Information

Finalized by: Programnämnden för agronomprogrammet
Biology Area: Other Biology Courses
Replacement course: BI0469