Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

Syllabus

BI1179.1 Agricultural Cropping systems, 5.0 credits

Agricultural Cropping systems

The course is given Agriculture Programme - Soil/Plant (270hec), Agriculture Programme (admission before 1 July 2007) and EnvEuro - European Master in Environmental Science and as course independent of study programme

Syllabus discontinued 14 March 2022

Version 1 in Slukurs. Corresponds to version 1, 2 and 3 in Ladok

Syllabus approved

3 December 2010

The version applies to students admitted from spring 2010

The version is not a module version

Subjects

Biology/Agricultural science

Education cycle

Second cycle

Modules

Title	Code	Credits
Single module	0101	5.0

Advanced study in the main field

Second cycle, has only first-cycle course/s as entry requirements (A1N)

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

English

Prior knowledge

Equivalent to 120 credits inluding 75 credits Biology and 15 credits Soil Science. English skills equivalent to English B from upper secondary school.

Objectives

The course is intended provide deeper knowledge within the subject area of cropping systems in temperate and tropical environments, including agroforestry systems. On completion of the course, students will be able to:
- value current cropping systems, and discuss the future demands and possibilities facing agricultural and crop production systems, e.g. climate change.
- describe cropping patterns in an historic and geographical perspective.
- discuss the multi-functionality of crop production systems and the trade-offs between different goals and functions.
- interpret and explain results from various methods used to assess cropping systems in terms of production capacity (e.g. quantity and quality) and sustainability (e.g. susceptibility to pests and pathogens, weed competition, nutrient and water efficiency, environmental impact, profitability, and labour requirement).

Content

The course provides deeper knowledge of the factors and interactions affecting the structure and functions of crop production systems. The course include project work, individual and in groups.
The course offers a review of current national and international crop production systems and of the factors that can be expected to influence such systems in the future. The course also includes studies of different methods for assessing crop production systems and analysis of conflicting aims within cropping systems e.g. between intensity, efficiency, economics and environmental impact.

Implementation

Scheduled activities

Lectures

approx. 15 Hours

Supervision and presentation of project work

approx. 10 Hours

Compulsory

Study visit

approx. 5 Hours

Compulsory

Examination and evaluation

approx. 5 Hours

Project work (planning and presentation)

approx. 15 Hours

Compulsory

Group activities, not scheduled

Group assignments

approx. 30 Hours

Individual studies, not scheduled

Literature studies

approx. 55 Hours

Total

approx. 135 Hours

Formats and requirements for examination

Passed examination and approved written and oral presentations. Approved participation of compulsory components 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.

Transitional regulations

• Exams: At least three retake sessions (renewed exams) must be offered within two years of the decision to cancel the course.
• Compulsory elements: At least one opportunity for a retake session must be offered within two years of the decision to cancel the course.

Additional information

- 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: Utbildningsutskottet för ekologi, mark och miljö
Biology Area: Other Biology Courses
Replacement course: BI1049