



## Syllabus

### **BI1101.2 Crop Production Ecology, 20.0 credits**

#### **Växtproduktion**

The course is given Agriculture Programme - Soil/Plant (270hec) and as course independent of study programme

Syllabus discontinued 14 March 2022

Version 2 in Slukurs. Corresponds to version 2 in Ladok

#### **Syllabus approved**

19 October 2011

The version applies to students admitted from autumn 2012

The version is not a module version

#### **Subjects**

Biology/Soil science

#### **Education cycle**

First cycle

#### **Modules**

<b>Title</b>	<b>Code</b>	<b>Credits</b>
Single module	0201	20.0

#### **Advanced study in the main field**

First cycle, has at least 60 credits in first-cycle course/s as entry requirements (G2F)

## **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**

The equivalent of 45 credits in Biology including at least 5 credits each in Crop production science, Floristics/Entomology, Ecology and Plant physiology, and 15 credits in Soil science, or 45 credits in Soil science and at least 5 credits each in Crop production science, Floristics/Entomology, Ecology and Plant physiology.

## **Objectives**

The course integrates crop production science, entomology, plant pathology, soil and water management and plant nutrition science. After passing the course the student shall have good knowledge regarding:

- prerequisites and limitations under Nordic conditions regarding soil type and fertility
- the influence of plant physiological processes, natural conditions and cultivation measures on establishment, growth, development and quality establishment of the crop stand.
- weed biology and cultivation measures for weed control
- mineral nutrients and their function in the plant, transport and availability in the soil and, soil fertility evaluation
- the roll of crop pests in plant production
- cultivation measures regarding water regulation through i.g. drainage and irrigation and, soil management

## **Content**

The course has a broad perspective and gives a general picture of today's cropping systems under Nordic conditions. The topics of lectures and exercises include the biology of cultivated plants, weeds and crop pests as well as the influence of

environmental factors and cultivation measures, for example weed and pest control and fertilization, on components of the cropping system. The course also includes studies of typical arable soils with respect to their cultivation characteristics, drainage and irrigation requirements, soil tillage and sowing. The different parts of the course are connected through a project work where groups of students analyze farms with varying types of production conditions.

## **Implementation**

### **Scheduled activities**

Lectures

approx. 80 Hours

Laboratory work

approx. 20 Hours

Compulsory

Exercises

approx. 80 Hours

Compulsory

Study visit

approx. 10 Hours

Compulsory

Seminars

approx. 25 Hours

Compulsory

Examination and evaluation

approx. 20 Hours

Project work (planning and presentation)

approx. 10 Hours

Compulsory

### **Individual studies, not scheduled**

Literature studies

approx. 295 Hours

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**Total****approx. 540 Hours****Formats and requirements for examination**

Approved written exams and approved written and oral presentation of project work and seminar exercises. Approved 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.

**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

**Cooperating departments:**

Department of Forest Mycology and Plant Pathology

Department of Ecology

Department of Soil and Environment

**Supplementary Information**

*Finalized by:* Utbildningsutskottet för ekologi, mark och miljö

*Biology Area:* Other Biology Courses

*Replacement course:* BI1101