

Syllabus

BIo880.1 Global crop production, 5.0 credits

Internationell växtodling

The course is given as course independent of study programme

Syllabus discontinued 27 October 2015

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

14 November 2007

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

The version is not a module version

Subjects

Biology

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

Knowledge equivalent to English B from upper secondary school is required as from the academic year 2009/10.

Equivalent to 180 ECTS including 90 ECTS Biology.

English skills equivalent to English A from upper secondary school.

Alternatively, equivalent to 120 credits including 60 credits Biology whereof 10 credits Ecology.

English skills equivalent to English A from upper secondary school.

Objectives

The course is intended to provide knowledge about the conditions and limits for crop production in a global perspective. On completion of the course, students will be able to:

- present an overview of biology, cultivation and use of the world's main food and forage crops
- describe the ecology and management of some of the world's most important weed species and crop diseases
- Evaluate the potential of production, and environmental effects of the world's main cropping systems.

Content

The course offers a wide perspective concerning conditions, potentials and limits for crop production in different parts of the world, in both temperate and tropical regions. More specifically the focus will be on how crop production is affected by climate, cropping system, management of weeds and crop diseases, biodiversity and new breeding technology and limitations due to drought, salinity and consideration for the environment. Lectures encompass management of the world's main crops, primarily wheat, rice, maize, oil crops, tuber crops, grain legumes and forage crops. Production potential and environmental impacts of the world's main cropping systems including intercropping are discussed as well as potential risks with different changes in the cropping system. Also, the most important weeds and crop diseases, including life forms, damages and control are considered. Lectures, given by experts

in their different fields are combined with literature seminars, studying of tropical crops with an interactive CD-ROM and writing an individual paper.

Implementation

Scheduled activities:

Lectures ca. 20 h

Exercises and seminars (compulsory) ca. 10 h

Introduction and presentation of individual work (compulsory) ca. 5 h

Introduction and course evaluation ca. 5 h

Self studies (not scheduled):

Individual paper ca. 35 h

Literature studies ca. 60 h

Sum ca. 135 h

Formats and requirements for examination

Approved written and/or oral exam, approved individual paper and approved participation in compulsory parts

- 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

An interactive tool (CD-ROM) for studying tropical crops will be used in the course.

- 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: Utskottet för naturvetenskapliga utbildningar, avancerad nivå (UNA)

Biology Area: Other Biology Courses

Replacement course: BIO447