

Syllabus

BI4105.1 Ecophysiology, 7.5 credits

Ekofysiologi

The course is given as course independent of study programme

Syllabus discontinued 29 March 2005

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

26 May 1997

The version applies to students admitted from spring 1999 to spring 2004

The version is not a module version

Subjects

Biology

Education cycle

First cycle

Modules

| Title | Code | Credits |
|---------------|-------------|----------------|
| Single module | 0101 | 7.5 |

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) of basic (A-level) and intermediate (B-level) courses in Biology including 10 SUC in Plant Physiology.

Objectives

To give the students:

- deeper knowledge in plant physiology with emphasis on the function of plants in forest ecosystems under various environmental conditions.
- ability to analyse physiological mechanisms of relevance for the adaptation of plants to their environment.
- practical experience of plant physiological methods of measurement in the laboratory and in the field.

Content

- Plant physiology, especially tree physiology, including assimilation of carbon dioxide, transport of carbohydrates, storage and transport of water and mineral nutrients, growth and development in relation to abiotic factors (radiation, temperature, access to mineral nutrition and water) and biotic factors (e.g. insects).
- Tolerance to low temperatures and desiccation in trees.
- Effects of air pollution and global climate changes on trees

Implementation

Lectures ca 40 h

Laboratory and field work ca 100 h (compulsory)

Examination**Requirements for examination**

Examination, laboratory experiments and field work.

Approved examination, laboratory experiments and field work. Compulsory participation in laboratory experiments and field work.

- 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 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 Forest Genetics and Plant Physiology

Supplementary Information

Finalized by: Programnämnden för skogsvetarprogrammet

Biology Area: Other Biology Courses