

Syllabus

BI4291.1 Vegetation Ecology, 15.0 credits

Vegetationsekologi

The course is given as course independent of study programme

Syllabus discontinued 15 November 2007

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

14 October 2003

The version applies to students admitted from spring 2004 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) of basic (A-level) and intermediate (B-level) courses in Biology, including 10 SUC of intermediate courses Ecology.

Objectives

After the course the student will have

- more profound knowledge on vegetation dynamics, structure and function in different forest ecosystems, with special emphasis on the boreal vegetation zone.
- increased insight in the complicated ecological factors that regulate plant composition and change,
- a deeper understanding of the patterns of natural disturbance and regeneration and of current problems in nature conservation.

Content

Vegetation history

- Development and long term change of forest ecosystems
- Climate and disturbance regimes; long term and short term changes
- Human caused changes in the forest ecosystem

Function and processes in forest ecosystems

- Regulation of plant populations, predominantly plant-plant interactions
- Function and importance of mycorrhiza in forest ecosystems
- Strategies for reproduction and growth among plant species

Conservation biology

- The role of biodiversity in system functioning
- Management of reserves and conservation areas
- Conservation of biodiversity in different environments, e.g. in forest and agricultural landscapes and in urban areas

Project (group exercise)

- The students will plan and perform an experimental study
- Training in written and oral presentation
- Practical use of ecological models

Implementation

Lectures ca 30 h

Seminars and group discussions ca 60 h (compulsory)

Group exercises and project ca 80 h (compulsory)

Examination

Requirements for examination

Theoretical exams, oral and written presentations

Approved exams and exercises, 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.

Additional information

This course is a prerequisite for the summer course "Field course in Vegetation Ecology"

- 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 Ecology and Management

Supplementary Information

Finalized by: Programnämnden skog och mark

Biology Area: Other Biology Courses

Replacement course: BI4067