

Syllabus

BI4262.1 Fire Management I, 7.5 credits

Fire Management I

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

10 October 2000

The version applies to students admitted from spring 2000 to autumn 2008

The version is not a module version

Subjects

Biology/Forest Management

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: 20 Swedish University Credits (SUC) of basic (A-level) courses in Biology or Forest management.

Objectives

The course gives theoretical and applied knowledge of fire in northern forests. The objective is to provide basic skills for the use of fire as a tool in nature conservation and silviculture. The course therefore has a substantial element of field exercises. A main focus is to clarify the influence of fuel, weather and topography on fire behaviour and fire effects. This is done through lectures, literature studies, field experiments and test fires.

Content

Field experiments deal with moisture relations of different fuel fractions and the processes of flaming and smoldering combustion and their respective influences on soil and plants. Burning experiments demonstrate central phenomena such as the acceleration phase from a point ignition, the influence of wind and topography on rate of spread and fire intensity, the effectiveness of different fuel breaks, and the influence of ignition pattern on fire intensity. These experiments are done at scales from a few m² to several hectares. The historic fire regime in northern Sweden and the influence of man on the fire regime is presented in lectures and excursions.

Implementation

Lectures ca 15 h

Literature (incl seminars and presentations) ca 30 h (compulsory)

Excursions ca 20 h (compulsory)

Field experiments ca 50 h (compulsory)

Burning exercises ca 50 h (compulsory)

Examination

Requirements for examination

Individual and group reports.

Approved individual and group reports.

- 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 number of students is limited to 20.

- 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 för skogsvetarprogrammet, Umeå
Biology Area: Other Biology Courses