

## **BIOR11, Biology: Mosses, Lichens, Fungi - Biodiversity and Conservation, 15 credits**

*Biologi: Mossor, lavar, svampar - biodiversitet och naturvård, 15 högskolepoäng*

**Second Cycle / Avancerad nivå**

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### **Details of approval**

The syllabus was approved by Study programmes board, Faculty of Science on 2007-03-01 to be valid from 2007-07-01, autumn semester 2007.

### **General Information**

The course is an optional second-cycle course for a degree of Bachelor or Master of Science in Biology. The course is also offered as a single subject course. The language of instruction is Swedish.

*Language of instruction:* Swedish

*Main field of studies*

Biology

*Depth of study relative to the degree requirements*

A1N, Second cycle, has only first-cycle course/s as entry requirements

### **Learning outcomes**

On completion of the course the students shall be able to:

- recognise some hundred species of bryophytes and lichens
- recognise the most common groups of macrofungi
- recognise the most common groups of terrestrial algae
- identify common bryophytes, lichens and fungi using identification literature
- understand and explain how the studied groups are phylogenetically related
- identify and analyse plant communities dominated by bryophytes and lichens and explain the biotic/abiotic requirements for these communities
- suggest conservation actions to favour species diversity and especially valuable habitats for cryptogams

- explain and critically analyse the processes contributing to changes in species composition and use this information in nature conservation
- use 'signal species' as a tool to identify biologically valuable habitats
- use red lists, species fact sheets and management plans as tools in applied nature conservation
- plan, carry out, compile and present an inventory project.

## Course content

- Introductory lectures in general systematics, terminology and identification methods. Information about collection and preparation techniques and storage of herbarium specimens.
- Field trips to representative environments with occurrence of bryophytes, lichens and fungi are carried out as single day excursions as well as a one week field course in southern Sweden. Overviews in the field about characteristic species of a given environment, their historical origin and ecological traits, and management and actions for preserving species diversity.
- processing of collected material in the laboratory. species determination of bryophytes, lichens and fungi using microscope and identification literature.
- Literature seminar and lectures focused on cryptogams in nature conservation.
- Inventory: an inventory is carried out in groups under realistic conditions. the results are presented in writing and orally.

## Course design

The teaching consists of field exercises, microscopy exercises, lectures, seminars, group work and projects. Participation in field exercises, seminars, projects, and thereby other integrated teaching, is compulsory.

## Assessment

Examination takes place as a written examination on fungi during the course, and as separate examinations on bryophytes and lichens at the end of the course. For students who have not passed the regular examination, an additional examination in close connection to this is offered.

*Subcourses that are part of this course can be found in an appendix at the end of this document.*

## Grades

Marking scale: Fail, Pass, Pass with distinction.

To pass the entire course, approved examinations, approved project report and participation in all compulsory components are required.

The final grade is decided through a weighing of the results of the parts that are included in the examination. To get the grade Passed or Passed with distinction, the grade Passed or Passed with distinction on all examinations is required.

**Entry requirements**

For admission to the course, 90 credits of scientific studies including at least 3 credits of floristics and knowledge corresponding to BIO580 Ecology 15 credits, or BIO503 Botany 12 credits, are required.

**Further information**

The course may not be included in a degree together with BIO570 Cryptogams 15 credits.

## Subcourses in BIOR11, Biology: Mosses, Lichens, Fungi - Biodiversity and Conservation

Applies from H07

0701 Mosses, Lichens, Fungi - Biodiversity and Conservation, 15,0 hp  
Grading scale: Fail, Pass, Pass with distinction