

# Syllabus

for course at first level

**Ecology I**  
**Ekologi I**

**15.0 Higher Education  
Credits**  
**15.0 ECTS credits**

<b>Course code:</b>	BL2007
<b>Valid from:</b>	Autumn 2007
<b>Date of approval:</b>	2006-09-27
<b>Department</b>	Department of Biology Education
<b>Subject</b>	Biology
<b>Specialisation:</b>	G1N - First cycle, has only upper-secondary level entry requirements

## Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University.

## Prerequisites and special admittance requirements

Swedish upper secondary school courses Biology B, or equivalent.

## Course structure

Examination code	Name	Higher Education Credits
2A07	Ethology	3
2B07	Ecology, Theory	9
2C07	Ecology, Field Course	3

## Course content

The course covers different bioms, distribution of species and biological diversity. The basic concepts and theories within evolutionary ecology, population dynamics and ecology of micro organisms. Ecological interactions such as coexistence and diversity, coevolution, mutualism, food webs and ecological communities. An overview of human use of natural resources. Basic statistical analysis. Basic knowledge about animal behaviour: learning, behavioural ontogeny and social behaviours.

The course includes the following elements: Ethology 3 hp, Ecology, theory 9 hp, Ecology Field Course 3 hp.

## Learning outcomes

It is expected that the student after taking the course will be able to:

- explain central ecological concepts and methods regarding different ecological levels (individual, population, ecological community and ecosystems) with examples from terrestrial and aquatic environments, microorganisms, plants and animals,
- plan, carry through and analyse basic ecological studies,
- show basic understanding for proximate and ultimate background to animal behaviour.

## Education

The education consists of lectures, seminars, exercises, field studies, laboratory exercises and group work. Participation in group work, seminars, exercises, field studies, laboratory exercises and group education associated with this is compulsory. An examiner may rule that a student is not obliged to participate in certain compulsory education if there are special grounds for this after consultation with the relevant teacher.

## Forms of examination

a. Examination for the course is in the following manner: measurement of knowledge takes place through: written and/or oral presentations as well as written and/or oral examination.

b. Grading is carried out according to a 7-point scale related to learning objectives:

A = Excellent

B = Very Good

C = Good

D = Satisfactory

E = Sufficient

Fx = Fail

F = Fail

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course, together with:

- approved laboratory exercises
- participation in all compulsory education.

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term “examination” here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach a pass grade on two occasions have the right to request that a different teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board.

### **Interim**

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board.

### **Limitations**

The course can not be included in a degree together with the courses Biology 45 p (BI1100), Ecology 6 p (BI1190), Ethology 1 p (BI1170), Ecology and ethology 6 p (BI2180), Biology 40 p (BI1880), Ecology with Floristics and faunistics (BI1890), Ecology 10 p (BI1980), Ecology 5 p (BI2080), Ecology, Introductory Course, 5 p (BI6060) or the equivalents.

### **Misc**

The course includes compulsory elements in field, which may entail additional cost for the student.

The course is a component of the Bachelor's Programmes in Biology and Biology-Earth Sciences, and it can also be taken as an individual course.

### **Required reading**

Course literature is decided by the departmental board and is described in an appendix to the syllabus.