

Syllabus

for course at first level

Ecology, Introductory Course
Ekologi, orienteringskurs

7.5 Higher Education
Credits
7.5 ECTS credits

Course code:	BL1002
Valid from:	Autumn 2007
Date of approval:	2006-10-18
Department	Department of Biology Education
Subject	Biology
Specialisation:	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

Basic eligibility.

Course structure

Examination code	Name	Higher Education Credits
1002	Ecology	7.5

Course content

The course covers the structure and dynamics of ecosystems: biochemical- and geological processes, energy fluxes and production rates. Evolutionary- and physiological ecology, resource utilization, environmental heterogeneity, the ecological niche concept.

Population ecology: life history, population growth and density dependent regulatory mechanisms. Species interactions, species communities, ecological succession, ecosystem- resilience, resistance and diversity.

Applied areas of ecology and conservation management such as farming, forestry, fisheries and invasive species.

Learning outcomes

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

- demonstrate knowledge of basic ecological theory and patterns and be familiar with some of the common types of Swedish ecosystems.
- apply some of the ecological methodology experienced throughout the course to different ecological problems.

Education

The education consists of lectures, group education and field studies.

Participation in group education, field studies 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 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 field studies
- 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 Ecology 5 p (BI6060), Biology 45 p (BI1100), Ecology 6 p (BI1190), Ecology and ethology 6 p (BI2180), Biology 40 p (BI1880), Ecology, Faunistics and Floristics 10 p (BI1890), Ecology 5 p (BI2080), Ecology 10 p (BI1980) or the equivalents. A Bachelor degree from the Faculty of Science at Stockholm University may normally include a maximum of 15 hp (ECTS credits) from courses classified as “orientation” courses. Orientation courses can not be included among credits for a Master’s degree at the Faculty of Science, Stockholm University.

Misc

The course includes field studies, which entail additional cost for the student.

Required reading

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