Department of Biology Education

Stockholm University

Syllabus

for course at first level

Ecology II
Ekologi II

15.0 Higher Education Credits
15.0 ECTS credits

Course code:	BL5005
Valid from:	Spring 2015
Date of approval:	2006-09-11
Changed:	2014-11-17
Department	Department of Biology Education
Main field:	Biology
Specialisation:	G2F - First cycle, has at least 60 credits in first-cycle course/s as entry requirements

Decision

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

Prerequisites and special admittance requirements

Admittance to the course requires knowledge equivalent to Cell and Molecular Biology 15 credits, Diversity and Phylogeny of Organisms 15 credits, Physiology 15 credits and Ecology, Floristics and Faunistics 15 credits. (Three credits corresponds to approximately two weeks full-time studies).

Course structure

Examination code	Name	Higher Education Credits
MOM1	Theory	7.5
MOM2	Field Research	6
MOM3	Essay and Seminar	1.5

Course content

The course covers the following areas: Population ecology: demography and populations dynamcis. Biological interactions: competition and predation, regulation of populations. Community ecology: diversity, abundance, biogeography, biotic and abiotic factors. Evolutionary ecology: life history theories, behavioural ecology. Ecosystem ecology: biogeochemical circles and energy flow. Applied ecology: human affects on ecosystems, conservation of biodiversity.

b. The course includes the the following elements: Theory 7.5 hp, Field Research 6 hp, Essay and Seminar 1.5 hp

Learning outcomes

It is expected that the student after taking the course will be able to :
• explain basic theory in ecological pattern and processes on an individual, population, community and ecosystem level.
• formulate and in practical terms test hypotheses regarding ecological processes and interactions and the evolutionary ecology background behind these.
• analyse ecological data with relevant descriptive and analytical methods and present the results in speech and in writings.
• present results in a scientific way both orally and in writing.

• show a knowledge about field ecology and describe the basic structures in common aquatic and terrestrial ecosystems.

Education

The education consists of lectures, group work, seminars, exercises and field studies.
Participation in group work, seminars, exercises as well as 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 as well as written and oral presentations.

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:
•participation in all compulsory education

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take further 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 course Ecology 10 p (BI3030) or the equivalent.

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 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.