

# Syllabus

for course at first level

**Environmental Protection in Biological Science**  
**Miljövård för biologer**

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

<b>Course code:</b>	BL5014
<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

## Decision

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

## 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
5A14	Theory	9
5B14	Study tour	1.5
5C14	Internship	1.5
5D14	Essay	3

## Course content

a. The course covers the following: Global environmental issues in relation to local and regional developments. Global environmental problems at international, national and local perspectives. The primary Swedish sources of pollution, large-scale release as well as diffuse sources, and their ecological effects. Different ways to monitor changes in the natural environment. International, EU- and Swedish environmental legislation. The maintenance of ecosystems and the importance for the human community. Ecological economy and ecological costs of utilization by humans (ecological footprints). Swedish environmental objectives.

b. The course includes the following elements: Theory 9 hp, study tour 1,5 hp, internship 1,5 hp and essay 3 hp.

## Learning outcomes

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

- show cross disciplinary knowledge between ecology, environmental objectives and society,
- explain the significance of the environmental effects at the organism-, population- and ecosystem level,
- be able to motivate the importance of biologists for environmental work, both in the private sector and the public sector,
- use the methods needed to handle environmental issues in the society,
- search, compile, present and debate scientific information concerning environmental protection in

biological science to different target groups.

### **Education**

The education consists of lectures, group work, seminars, study visits, written and oral presentations, work with essay and internship.

Participation in group work, seminars, written and oral presentations, excursions, internship 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, seminars and essay.

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 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 may not be included in a degree together with the course Environmental Care in Biological Science 10 p (BI3250) or the equivalent.

### **Misc**

The course includes field studies that may 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.