

# Syllabus

for course at first level

**Environmental Problems in Brackish Environments**  
**Miljöproblem i brackvatten**

**3.0 Higher Education**  
**Credits**  
**3.0 ECTS credits**

<b>Course code:</b>	BL5020
<b>Valid from:</b>	Autumn 2008
<b>Date of approval:</b>	2008-09-04
<b>Department</b>	Department of Biology Education
<b>Subject</b>	Biology
<b>Specialisation:</b>	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/Genes, cells and populations 15 hp, 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
5020	Environmental Problems in Brackish Environments	3

## Course content

The course covers population ecology and the interaction between populations in the Baltic Sea food web. Ecosystem theory with the Baltic region including the human society and its natural resources needs in focus. Landscape ecology with emphasis on the unique Baltic archipelago. The effects from harmful chemicals on organisms. The fate and distribution of chemicals in the Baltic Sea food web. Effects from terrestrial processes such as agriculture and forestry on the primary production pattern in the Baltic Sea.

## Learning outcomes

It is expected that the student after taking the course will be able to: • demonstrate solid knowledge in brackish water ecology, i.e. theory and methodology regarding studies on different levels of ecological organisation: individual, populations, communities and ecosystems with emphasis on the Baltic region • provide examples of ecological patterns and processes in plants and animals in brackish water environments in general and in the Baltic Sea in particular • demonstrate skills in performing ecological science projects in the field • understand the specific environmental problems of the Baltic Sea and knowledge in how to design a environmental monitoring programme.

## Education

The education is in general problem orientated and consists of lectures, excursions and field studies. Teaching is mainly conducted in field.

Participation in field exercises and excursions as well as briefings associated with these 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 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 course Environmental Problems in Brackish Environments 2 p, (BI1060) or the equivalent.

### **Misc**

The course is a component of the Bachelor's Programme in 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.