

Syllabus

for course at first level

Diversity and Phylogeny of Organisms
Organismernas mångfald och fylogeni

15.0 Higher Education
Credits
15.0 ECTS credits

Course code:	BL2013
Valid from:	Autumn 2010
Date of approval:	2008-04-07
Changed:	2010-10-07
Department	Department of Biology Education
Main field:	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

Swedish upper secondary school courses Biology B, Chemistry B and Mathematics C, or equivalent.

Course structure

Examination code	Name	Higher Education Credits
2C13	Practical Studies, incl. Animal Dissections.	2.5
2D13	Theory and Practical Studies. Evolution.	8.5
2F13	Theory	4

Course content

a. The course covers the origin of life, the tree of life and the diversity, morphology, life history and phylogeny of the main groups of organisms. b. The course includes the following elements: 1. Theory 4 hp. 2. Practical studies of groups of organisms including animal dissections 2,5 hp. 3. Theory and practical studies of groups of organisms. Evolution. 8,5 hp.

Learning outcomes

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

- give an account of the main groups of organisms and their diversity, morphology, life history and phylogeny
- give a general overview for the history of life on earth
- show a basic understanding of the contents of the theory of evolution and its implications as a model of explanation in biology
- analyze phylogeny and character evolution, as well as using cladograms for formulating and discussing evolutionary problems in biology
- dissect and use the microscope

Education

The education consists of lectures, laboratory exercises, dissections and group education.

Participation in group education, laboratory exercises as well as dissections 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 for element 1 & 3 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

F_x = 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:

- pass of element 2
- approved laboratory exercises and dissections
- 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), Animal Diversity and Phylogeni (BIA100), Plant Diversity and Phylogeny (BIA190), Biology 40 p (BI1880), Diversity and Phylogeny of Organisms 13 p (BI2030), Diversity and Phylogeni of Organisms, Without Experimental Animals 13 p (BI2040), Diversity and Phylogeni of Organisms 5 p (BI2010), Diversity and Phylogeny of Organisms, Without Experimental Animals (BI2020), Diversity and Phylogeni of Organisms 10 p (BI2120), Diversity and Phylogeny of Organisms, Without Experimental Animals 10 p (BI2130), Evolution och Diversity 10 p (BI2290), Diversity and Phylogeni of Organisms 15 hp (BL2002), Diversity and Phylogeni of Organisms, Without Experimental Animals 15 hp (BL2004) and (BL2014) or the equivalents.

Misc

The course is given as an individual course.

Required reading

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