

Syllabus

for course at advanced level

**Population and Conservation Genetics
Populations- och bevarandegenetik**

**7.5 Higher Education
Credits
7.5 ECTS credits**

Course code:	BL8031
Valid from:	Autumn 2008
Date of approval:	2007-05-14
Department	Department of Biology Education
Subject	Biology
Specialisation:	A1N - Second cycle, has only 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 Population Genetics 15 credits and Conservation Biology 15 credits. (Three credits corresponds to approximately two weeks full-time studies). Swedish upper secondary school course English B or equivalent or one of the following tests. Cambridge CPE och CAE: Pass. IELTS : 6.0 (with no part of the test below 5.0). TOEFL (paper based): 550 (with minimum grade 4 on the written test part). TOEFL (computer based): 213. TOEFL (internet based): 79.

Course structure

Examination code	Name	Higher Education Credits
8031	Population and Conservation Genetics	7.5

Course content

The course covers the theory and empirical aspects of population genetics – the processes that shapes the genetic landscapes of individual species - with a focus on those parts of the field that are associated with the conservation and sustainable use of genetic diversity.

Learning outcomes

It is expected that the student after taking the course has

- obtained a broader and deeper knowledge of theoretical and empirical population genetics, and how its role in conservation biology,
- obtained particular knowledge of the genetics of small populations and the genetic effects of various human impact in nature,
- practical experience from handling empirical populations genetics data including conducting basic statistics analyses and drawing conclusions bases on basic tests,
- has obtained insights in how conservation genetics may be applied in practical conservation work.

Education

The education consists of lectures, seminars, exercises and individual work.

Participation in seminars, exercises as well as individual work 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

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:

- approved written and oral presentations
- 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 Population Genetics and Conservation Biology 10 p (BI3530) or the equivalent.

Misc

The course is a component of the Master's Programme 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.