

Syllabus

for course at advanced level

Statistics for biologists II

Statistik för biologer II

7.5 Higher Education

Credits

7.5 ECTS credits

Course code:	BL7068
Valid from:	Spring 2021
Date of approval:	2021-01-11
Department	Department of Biology Education
Main field:	Biology
Specialisation:	A1N - Second cycle, has only first-cycle course/s as entry requirements

Decision

This course syllabus was approved by the Board of Science at Stockholm University on 11/01/2021.

Prerequisites and special admittance requirements

For admission to the course, knowledge is required equivalent to Statistics for biologists I, 5 credits (BL2030) or the equivalent of a Bachelor's degree in Biology.

Course structure

Examination code	Name	Higher Education Credits
HELA	Statistics for biologists	7.5

Course content

This course addresses various aspects of planning scientific experiments and studies. Handling and systematisation of biological data is trained and various types of statistical analysis methods and approaches used in biological research are discussed. The course provides training in analysis and visualisation of data with the help of statistics program R. The content includes the linear model, regression, pairwise tests, analysis of variance, contingency tables, frequency analysis and interpretation and presentation of analysis results.

Learning outcomes

Education

Teaching consists of lectures, computer exercises and group work.
The course is offered in English.

Forms of examination

a. The course is examined as follows: Assessment takes place through written exams. The examiner can decide on adapted or alternative examination formats for students with disabilities.
The examination will be conducted in English.

b. A passing final grade requires participation in computer exercises. If special reasons exist, following consultation with the teacher involved, the examiner may grant the student exemption from the obligation to participate in certain compulsory instruction.

c. Grading: The course's final grade is set according to a seven-point criterion-referenced scale:

A = Excellent

B = Very good

C = Good

D = Satisfactory

E = Adequate

Fx = Fail, some additional work required

F = Fail, much additional work required

d. The course's grading criteria are handed out at the start of the course.

e. Students who receive a failing grade on a regular examination are allowed to retake the examination as long as the course is still provided. The number of examination opportunities is not limited. Other mandatory course elements are equated with examinations. A student who has received a passing grade on an examination may not retake the examination to attain a higher grade. A student who has failed the same examination twice is entitled to have another examiner appointed, unless there are special reasons to the contrary. Such requests should be made to the department board. The course includes at least three examination opportunities (if necessary: for each course module) per academic year the course is offered. For the academic years that the course is not offered, at least one examination opportunity is offered.

f. There is no possibility to improve the grade Fx to a pass grade in this course.

Interim

Students may request that the examination be conducted in accordance with this course plan even after it has ceased to be valid. However, this may not take place more than three times over a two-year period after the course was discontinued. Requests must be made to the departmental board. The provision also applies in the case of revisions of the course syllabus and revisions of the required reading.

Limitations

This course may not be included in a degree together with the course Biological statistics II, 7.5 credits (BL7048).

Misc

The course is part of Master's Programme in Ecology and biodiversity, Ethology and Marine biology, but may also be taken as a separate course.

Required reading

The required reading is decided by the department board and published on the course page in the course catalogue at least 2 months before the start of the course.