

Syllabus

for course at advanced level

Statistics for Linguists
Statistik för språkvetare

**7.5 Higher Education
Credits**
7.5 ECTS credits

Course code:	LIM023
Valid from:	Autumn 2019
Date of approval:	2018-08-17
Department	Department of Linguistics
Main field:	Linguistics
Specialisation:	A1N - Second cycle, has only first-cycle course/s as entry requirements

Decision

This syllabus was developed by the Faculty Board of Humanities 2018-08-17 and adopted by the Board of the Department of Linguistics 2018-08-17.

Prerequisites and special admittance requirements

120 ECTS credits in the Bachelor Programme in Linguistics including Linguistics IV, 30 ECTS credits, *or* Degree of Bachelor of Arts in Language Science, including an individual degree project in Language Science. English 6 or equivalent.

Course structure

Examination code	Name	Higher Education Credits
0230	Statistics for linguists	7.5

Course content

The course provides knowledge about basic statistical methods and statistical tools used in linguistic research. The characteristics, usability, and pros and cons of the various statistical methods are discussed. Implementation of statistical methods in software is an important focus of the course.

The areas primarily concerned are:

- descriptive statistics; measures of location and dispersion, types of scales
- the basics of probability theory; the concept of probability; conditional probability, statistical independence
- probability distribution
- methods of inference; sampling, estimation, significance analysis, confidence intervals and tests, power functions, statistical model
- analysis of qualitative data; chi square analysis
- regression and correlation
- analysis of variation (ANOVA)

Learning outcomes

In order to pass the course, students are expected to be able to:

- describe the general principles of statistical inference in linguistics
- state the characteristics of the most common statistical distributions and numerically calculate confidence intervals and tests

- perform regression analysis, correlation analysis and analysis of variance
- choose the correct statistical method for a particular purpose
- explain the basics of inference theory and solve elementary problems
- implement methods in statistical software and interpret results.

Education

Instruction is given in the form of lectures, group discussions and lab sessions. The language of instruction is English.

Forms of examination

- a) The course is examined on the basis of i) written assignments; ii) a take-home exam.
- b) Grades will be set according to a seven-point scale related to the learning objectives of the course:

A = Excellent
 B = Very good
 C = Good
 D = Satisfactory
 E = Adequate
 Fx = Inadequate
 F = Totally Inadequate

- c) Students will be informed of the written grading criteria when the course starts. Once distributed, the criteria are binding.

- d) In order to pass the course, students must receive a grade of E or higher on all examinations.

The principles for weighting individual course assignments are described in the grading criteria.

- e) At least two examination opportunities are offered for each course examination in the semester when the course is given. Students who have not achieved a pass may take the exam again when the course is given again.

Students who receive the grade E or higher may not re-take the examination to attain a higher grade.

Students who receive the grade Fx or F twice by the same examiner are entitled to have another examiner appointed for the next examination, unless there are special reasons to the contrary. Such requests should be made to the department board.

The completion of a supplementary assignment in order to convert the grade Fx into a passing grade on may be permitted if the student is close to meeting the criteria for a passing grade. The assignment should be submitted within a week of the examiner notifying the student of the need to supplement the examination. Adequate corrections of simple mistakes related to formatting will be graded using the grades A-E. Adequate corrections of flaws related to understanding – minor misunderstandings, minor inaccuracies or too limited arguments – will be graded using C-E.

Interim

When the course is no longer offered or its contents have been substantially altered, the student has the right to be examined according to this course syllabus once per semester for a three further semesters (however, the restrictions under Forms of examination above still apply). A request for post-course examination is to be addressed to the Board of the Department.

Limitations

This course may not be included in a degree together with a course, taken in Sweden or elsewhere, of fully or partially overlapping content.

Misc

This course previously had the code LIM013.

Required reading

Please see the Department's education pages at www.ling.su.se. An updated reading list will be made available no later than two months before the start of the course.