

SPVM12, Linguistics and Cognitive Science: Statistical Analysis for Behavioural Sciences, 7.5 credits

*Språk- och kognitionsvetenskap: Statistisk analys för beteendevetenskaper, 7,5
högskolepoäng*
Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by The Pro Dean of First and Second Cycle Studies at The Joint Faculties of Humanities and Theology on 2026-05-25 (U 2026/305). The syllabus comes into effect 2026-05-25 and is valid from the autumn semester 2026.

General information

The course is offered as an elective course in the Master's (120 credits) programme in Language and Linguistics. It can normally be included in a first or second cycle degree.

Language of instruction: English

*Main field of
study*

Specialisation

-

A1N, Second cycle, has only first-cycle course/s as entry requirements

Learning outcomes

On completion of the course, the students shall be able to

Knowledge and understanding

- give an account of the difference between various types of variables (categorical, ratio scale, proportions, frequencies)
- describe different types of visualisation of experimental or other numerical data
- give an account of the principle of hypothesis testing

Competence and skills

- create a well-structured data file (e.g. by means of a spreadsheet program) that can be analysed
- summarise a data set with suitable descriptive statistical values
- use the analysis program "R" to create diagrams and carry out statistical analyses

Judgement and approach

- assess if a data description provides enough information to enable a reader to form a picture of the results.

Course content

The course focuses mainly on describing and exploring statistical methods: measures of tendency and dispersion, different types of data visualisation, processing of extreme values, data distribution, data transformation.

Course design

Teaching consists of lectures, five to seven compulsory practical exercises and a compulsory component in which they conduct their own experiment.

Assessment

Assessment is in the form of a written examination halfway through the course and a take-home assignment at the end of the course.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Grades

Grading scale includes the grades: Fail, Pass

Entry requirements

Degree of Bachelor of which 60 credits in either psychology, cognitive science, linguistics or equivalent knowledge and English proficiency equivalent to English 6/English Level 2.

Further information

- The course is offered at the Centre for Languages and Literature in collaboration with the Humanities Lab at Lund University.
- The course replaces SPVM07.
- The credits allocated for course content that in whole or in part is commensurate with another course can only be credited once for a degree.