



LUND
UNIVERSITY

Faculties of Humanities and Theology

SPVM07, 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 for First-Cycle Studies at the Faculties of Humanities and Theology on 2020-12-08 to be valid from 2020-12-08, spring semester 2021.

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 studies

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Depth of study relative to the degree requirements

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.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, Pass, Pass with distinction.

Entry requirements

Entry to the course requires a Degree of Bachelor of which 60 credits in either psychology, cognitive science, linguistics or equivalent knowledge.

Further information

1. The course is produced in collaboration with the Humanities Lab at Lund University.
2. The course replaces an earlier course, HTXA03. 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.

Subcourses in SPVM07, Linguistics and Cognitive Science: Statistical Analysis for Behavioural Sciences

Applies from H21

2101 Statistical Analysis for Behavioural Sciences, 7,5 hp
Grading scale: Fail, Pass, Pass with distinction