



Faculties of Humanities and Theology

HTXN04, Linguistics and Cognitive Science: Statistical Analysis for Behavioural Sciences I, 7.5 credits

Språk- och kognitionsvetenskap: Statistisk analys för beteendevetenskaper I, 7,5 högskolepoäng

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by the programmes director by delegation from the pro-dean for first- and second-cycle studies on 2012-10-10 to be valid from 2012-10-10, spring semester 2013.

General Information

The course is offered as an elective component of Master's programmes in Psychology, Cognitive Science or Language and Linguistics. It can normally be included in a first- or second-cycle degree.

Language of instruction: English

The course is normally taught in English, but if both the students and the lecturer agree, it may be taught in Swedish. Such an agreement would depend on both the lecturer and the students having a good knowledge of Swedish.

Main field of studies

Language and Linguistics

Psychology

Cognitive Science

Depth of study relative to the degree requirements

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

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Learning outcomes

On completion of the course the students shall

Knowledge and understanding

- be able to account for the differences between different types of variables (categorical, ratio scale, proportions, frequencies)
- be able to describe different ways of visualising experimental or other types of numerical data
- be able to account for the principle of hypothesis testing.

Competence and skills

- be able to create a well-structured data file (through calculation software, for example) that is possible to analyse
- be able to summarise a set of data by means of appropriate descriptive statistical values
- be able to use the "R" analysis software to create diagrams and carry out statistical analyses.

Judgement and approach

- be able to judge if a description of data is sufficiently informative for a reader to understand what the data file looks like.

Course content

The course primarily focuses on descriptive and exploratory statistical methods. The topics include measures of trends and distribution, different types of data visualisation, treatment of extreme values, data allocation and data transformation.

Course design

The teaching includes lectures, compulsory practical exercises and a compulsory experimental project.

Assessment

The assessment is based on a midway written exam and a written assignment at the end of the course.

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

To be admitted to the course, students must have 60 credits in one of the subjects Psychology, Cognitive Science or Linguistics, or the equivalent.

Further information

1. The course is offered at the Humanities Laboratory, Lund University.
2. The course replaces HTXA03.
3. 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. For further details see the current registration information and other relevant documentation.

Subcourses in HTXN04, Linguistics and Cognitive Science: Statistical Analysis for Behavioural Sciences I

Applies from H12

1201 Statistical Analysis for Behavioural Sciences I, 7,5 hp
Grading scale: Fail, Pass, Pass with distinction