



Faculties of Humanities and Theology

HTXN03, Linguistics and Cognitive Science: Experimental Design, 7.5 credits

Språk- och kognitionsvetenskap: Experimentell design, 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 2012-05-30 to be valid from 2012-05-30, autumn semester 2012.

General Information

The course is offered as a freestanding course. 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

Cognitive Science

Psychology

Language and Linguistics

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 most important types of laboratory-based experimental design in behavioural sciences research involving human subjects
- be able to explain the principles behind experimental research: independent and dependent variables, randomisation, etc.

Competence and skills

- be able to plan and carry out basic experiments with appropriate control conditions
- be able to select, adapt and interpret the results of an experimental paradigm
- be able to apply different experimental methods for research in their own main fields
- be able to design an individual experiment in accordance with established scientific standards.

Judgement and approach

- be able to critically evaluate the experimental design in published research, justify their evaluation and critically evaluate their own results and those of others.

Course content

The course provides information on how to plan, design and carry out experiments with PsychoPy (a free piece of software for experimental design), process the results for statistical analysis and gradually interpret the results. A number of experimental paradigms are introduced and can be adapted to specific research requirements.

Course design

The teaching includes lectures, individual work on experiment planning, group discussions and the performing of an individual experiment.

Assessment

The assessment is based on a compulsory submitted assignment, planning and performing of an individual experiment 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 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 HTXN03, Linguistics and Cognitive Science: Experimental Design

Applies from V12

1201 Experimental Design, 7,5 hp
Grading scale: Fail, Pass, Pass with distinction