



Faculties of Humanities and Theology

HTXN06, Linguistics and Cognitive Science: ERP Research Methods - Recording and Analysis, 2 credits

*Språk- och kognitionsvetenskap: ERP-metod - registrering och
analys, 2 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 2012-10-18 to be valid from 2012-10-18, spring semester 2013.

General Information

The course is offered as an elective component of Master's programmes in Psychology, Cognitive Science and 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

Cognitive Science

Language and Linguistics with
specialization in General 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 basic principles of electrophysiological research methods and recording of EEG signals
- be able to describe how a simple ERP experiment is to be designed

Competence and skills

- be able to conduct an EEG recording in a predesigned experiment
- be able to perform a simple analysis of EEG that leads to average ERG waves

Judgement and approach

- be able to critically assess the pros and cons of ERP methodology
- be able to take a position on and predict difficulties and problems that may arise in research involving ERP methodology.

Course content

The aim of the course is to provide students with practical experience of working with the EEG systems available in the Humanities Lab for recording and analysis. The course consists of an introductory theory lecture and a number of laboratory exercises. Students take part in a demonstration of an EEG recording and a subsequent minor analysis and get the opportunity to practise recording and analysis on their own.

Course design

The teaching consists of an introductory lecture, four laboratory sessions and approximately two independent exercises. Attendance is compulsory at the laboratory exercises.

Assessment

The assessment is based on a written exam.

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 a Bachelor's degree including 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.

Subcourses in HTXN06, Linguistics and Cognitive Science: ERP Research Methods - Recording and Analysis

Applies from H12

1201 Linguistics and Cognitive Science: ERP Research Methods, 2,0 hp
Grading scale: Fail, Pass, Pass with distinction