Course Description

Advanced statistical methods for hearing and deafness research
7.5 hp/7.5 ECTS credit

COURSE OBJECTIVES

After the course, students will be able to:
- determine and explain the relevance of appropriate data sampling and statistical methods based on a particular research question- apply appropriate data sampling and advanced statistical methods such as factor analysis, regression analysis and analysis of variance
- interpret and report the results of advanced statistical analyses

CONTENTS

Central topics that will be presented and discussed in the course are the range of data sampling and statistical analysis methods suitable for application within the field of hearing and deafness; how to determine appropriate data sampling and statistical analysis methodologies in relation to a particular research question within the field of hearing and deafness; how the results of advanced statistical analysis can be interpreted in relation to the original research question and how these results may be clearly and concisely reported in accordance with the standards used in the research literature. The advanced statistical methods that will be covered in depth during the course include factor analysis, regression analysis and analysis of variance.

MODES OF TEACHING/WORKING FORMS

The course includes lectures and discussion seminars. Students are expected to participate actively.

EXAMINATION

Examination involves performing analyses with advanced statistical methods presented and discussed in the course, motivating their application in relation to a research question and reporting results orally and in written form.

Documented active participation throughout the course.

ADMISSION REQUIREMENTS

Registration as doctoral student or masters student. Students are expected to have basic knowledge about inferential statistics.

GRADING

The grades are Approved and Not approved.

COURSE READINGS

The teachers decide on course readings. Required and recommended readings will be selected from specialized textbooks and will also include current papers from the primary literature.

COURSE EVALUATION

Course planning and teaching is based on the course description. Obligatory course evaluation will assess to what extent the course corresponds with the description.

OTHER

The course is conducted in such a way that both men's and women's experience and knowledge is made visible and developed.

The Course description is valid from Spring 2011

Fastställd i FUN

2011-XX-XX

Kursen ingår i utbudet av valbara kurser