



FDT3302 Statistical Methods for Behavioural Science 10.0 credits

Statistiska metoder för beteendevetenskap

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for FDT3302 valid from Spring 2015

Grading scale

Education cycle

Third cycle

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The course intends to make the participant well familiar with the statistical methods and the statistical tools that are used within the behavioural science field. The participant should, on completion of the course, be able to account for the properties of the different statistical methods, their usability, advantages and disadvantages. The participant should also be well familiar with the general principles at statistical conclusion; possibilities and limitations. The participant should be able to state the properties of the most common statistical distributions and be able to numerically calculate confidence intervals, carry out statistical tests, carry out regression and variance analysis and be able to choose correct statistical method in different situations.

Course contents

Basic concepts and methods, census and sample surveys, qualitative and quantitative studies, methods of measurement, measuring techniques, data acquisition, tables and diagrams, statistical quality and error types, measures of central tendency and dispersion, regression and correlation, correlation measures, analysis of qualitative data; Chi-2 analysis, evaluation of studies, confidence intervals and hypothesis testing, multivariate methods, variance analysis (ANOVA), not parametric methods for quantitative data. Analysis of data using statistical software, mainly SPSS.

Course literature

Howell, D. C. Statistical Methods for Psychology

Examination

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.