

# Advanced Statistical Methods

Single subject and programme course

6 credits

Avancerad statistik

729A25

Valid from: 2018 Spring semester

**Determined by**

Course and Programme Syllabus Board  
at the Faculty of Arts and Sciences

**Date determined**

2018-04-23

**Offered for the last time**

Spring semester 2022

**Replaced by**

769A26

## Main field of study

Cognitive Science

## Course level

Second cycle

## Advancement level

A1X

## Course offered for

- Master Programme in Cognitive Science

## Entry requirements

For admission to the course, the specific entry requirements that apply for The master's education in Cognitive Science must be satisfied.

## Intended learning outcomes

On completion of the course, the student should on advanced level be able to

- chose, motivate their choice and critically evaluate statistical analysis methods in relation to research questions
- perform, interpret and report analysis of variance, regression analysis and factor analysis on data arranged to fit these analysis methods
- perform, interpret and report one of the above mentioned analysis methods on real world messy data
- describe and perform statistical analysis methods so that they are reproducible.

## Course content

The course covers:

- choice of analysis methods
- analysis of variance
- regression analysis
- factor analysis
- interaction effects
- reproducibility of analysis
- open data
- presentation of results in journals

## Teaching and working methods

The teaching consists of lectures, assignments, seminars, and independent studies.

## Examination

The course is examined through individual assignments and presentation of an analysis. Detailed information can be found in the study guide.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

## Grades

Three-grade scale, U, G, VG

## Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

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

## Department

Institutionen för beteendevetenskap och lärande