



## COURSE SYLLABUS

# Statistical Methods, 7.5 credits

*Statistiska metoder, 7,5 högskolepoäng*

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<b>Course Code:</b> FHSTA37	<b>Education Cycle:</b> Third-cycle level
<b>Confirmed by:</b> Director of Education May 1, 2017	
<b>Revised by:</b> Director of Education Jun 29, 2020	
<b>Valid From:</b> Autumn 2020	
<b>Version:</b> 2	

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### Intended Learning Outcomes (ILO)

After completing the course, students should be able, within the areas below, to:

#### Knowledge and understanding

- demonstrate broad knowledge and systematic understanding of the use of methods and statistics in a scientific context
- demonstrate familiarity with the appropriateness of statistical procedures in their own work and that of others.

#### Skills and abilities

- independently arrange data material in an appropriate way for the chosen statistical processing
- critically and with scientific accuracy perform certain statistical procedures and interpret the results
- carry out an in-depth analysis of the advantages and limitations of statistical procedures.

#### Judgement and approach

- assess aspects of validity and reliability in quantitative research.

### Contents

The course covers quantitative methods and statistical analyses applied in practice in the SPSS environment. The course covers analytical statistics: hypothesis testing, parametric and nonparametric analysis methods, multiple linear regression, log linear regression, reliability analysis and certain aspects of factor analysis.

### Type of instruction

The course is comprised of lectures, computer exercises and seminars. The course is performed every three terms, every other time on campus in Swedish and every other time web-based in English.

The teaching is conducted in English.

### Prerequisites

To be enrolled in the course the student should have 240 credits, 60 of which should be at the advanced level, including a written paper of 15 credits. The course requires statistical knowledge at basic level. Familiarity with SPSS as data management program is recommended.

**Examination and grades**

The course is graded Fail (U) or Pass (G).

The course examination is comprised of individually written papers.

The course examiner is an associate professor or professor.

**Other information**

Attendance in seminars is mandatory.

The course is run as part-time study unless otherwise stated.

**Selection**

1. Students registered in the Research School of Health and Welfare
2. Students registered in researcher education from another seat of learning
3. Other applicants: credits (with equal credits, drawing of lots)

**Course literature**

Brace, N., Kemp, R., & Sneglar, R. (2012). *SPSS for psychologists*. New York: Routledge  
Further scientific articles and reports may be added.

The most recent editions of course literature should be used.