



## COURSE SYLLABUS

# Statistical Methods I, 4.5 credits

*Statistiska metoder I, 4,5 högskolepoäng*

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<b>Course Code:</b> FHSTM35	<b>Education Cycle:</b> Third-cycle level
<b>Confirmed by:</b> Utbildningsrådet Sep 24, 2024	
<b>Valid From:</b> Spring 2025	
<b>Version:</b> 1	

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### Intended Learning Outcomes (ILO)

On completion of the course, the student should be able to:

Knowledge and understanding

- explain statistical terms in their own words
- use appropriate statistical terms when referring to discrete components and characteristics of a statistical analysis
- choose an appropriate statistical analysis method based on a given scientific question and the characteristics of the data at hand
- explain the assumptions underlying statistical analysis methods.

Skills and abilities

- structure data material in an appropriate way for the chosen statistical analysis method
- perform statistical procedures with scientific accuracy
- accurately interpret the results of statistical analyses
- analyze the advantages and limitations of statistical procedures.

Judgement and approach

- appraise the strengths and limitations of the results derived through statistical analyses in context.

### Contents

Statistical analyses applied in practice in the SPSS environment;

- hypothesis testing
- parametric and nonparametric analysis methods
- correlation analysis
- analysis of variance
- simple linear regression

### Type of instruction

The course is implemented through lectures, computer labs and seminars.

The teaching is conducted in English.

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### Prerequisites

The applicant must hold a degree at advanced level or passed course requirements of at least 240 credits including 60 credits at advanced level including a thesis of 15 credits (or the equivalent)

### Examination and grades

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

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Examination of the course will be based upon an individually written paper and seminars.

The course examiner is an associate professor or professor.

Registration of examination:

Name of the Test	Value	Grading
Individual written paper	3.5 credits	U/G
Seminars	1 credit	U/G

### Other information

Selection for admission:

1. Students registered in the third-cycle programme at Jönköping University
2. Students registered in the third-cycle programme at another university
3. Other applicants: admission based on the number of credits (the applicants will be selected randomly in the case of equal merits).

### Course literature

Brace, N., Kemp, R., & Sneglar, R. (2016). *SPSS for psychologists (and everybody else)*. Routledge.

or

Field, A. (2017). *Discovering statistics using IBM SPSS statistics*. Sage Publications Ltd  
Scientific articles and reports may be added.

The most recent editions of course literature should be used.