



## COURSE SYLLABUS

# Statistical Methods II, 3 credits

*Statistiska metoder II, 3 högskolepoäng*

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<b>Course Code:</b> FHST235	<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)

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

Knowledge and understanding

- explain statistical output from multivariate analyses
- understand the criteria for selecting appropriate statistical analysis for a complex set of data.

Skills and abilities

- structure data material in an appropriate way for the chosen statistical methods
- perform certain statistical procedures with scientific accuracy
- carry out an in-depth analysis of the advantages and limitations of statistical procedures.

Judgement and approach

- critically review and evaluate statistical results and conclusions
- assess aspects of validity and reliability in quantitative research.

### Contents

- log-linear regression
- reliability analysis,
- aspects of factor analysis, and
- basic level of Structural Equation Modeling
- practice in the SPSS environment.

### Type of instruction

The course is implemented through lectures and seminar.

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 24.0 credits including 6.0 credits at advanced level including a thesis of 15 credits (or the equivalent) and completed course in Statistical Method I or 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 assignment and a seminar.

The course examiner is an associate professor or professor

Registration of examination:

Name of the Test	Value	Grading
Individual written assignment	2.5 credits	U/G
Seminar	0.5 credits	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. (2024). *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.