COURSE SYLLABUS

Statistical Methods II, 3 credits

Statistiska metoder II, 3 högskolepoäng

Course Code:	FHST235	**Education Cycle:**	Third-cycle level
Confirmed by:	Utbildningsrådet Sep 24, 2024		
Valid From:	Spring 2025		
Version:	1		

Intended Learning Outcomes (ILO)

On 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.

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) and completed course in Statistical Method I or equivalent.

Examination and grades

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

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.