

# Syllabus for Introduction to Multivariate Statistics

*Introduktion till multivariat statistik*

**7,5 credits**

**Course code:** FHS0024

**Education cycle:** Third cycle

**Main field of study:** Business Studies

**Grading system:** FOG One-grade scale (G pass)

**Established:** 190130

**Established by:** The Department Board

**Applies from:** week 04, 2020

**Entry requirements:**

Admitted as a PhD Student at an institute of higher education in Sweden or abroad.

Proficiency in English.

**Responsible department:** Department of Business Studies

## **DECISIONS AND GUIDELINES**

The course is recommended within the Research School Management and IT (MIT).

## **LEARNING OUTCOMES**

This is an introductory course for doctoral students who have not read statistics or who want to refresh their knowledge. It gives students a basic understanding for a range of quantitative statistical techniques. The goal is for students to understand the potential for these techniques as well as interpret results.

## CONTENT

- Introduction to multivariate techniques
- Examining data.
- Exploratory factor analysis.
- Multiple regression.
- Discriminant analysis.
- Logistic regression.
- Analysis of variance.
- Cluster analysis.
- Confirmatory factor analysis (LISREL)

## INSTRUCTION

The basics of data, such as measurement level, normality, outliers, and missing data will be discussed. Some of the more widely used analysis techniques will be demonstrated. The students will get hands-on experience through simple practical exercises using SPSS software.

Language: The course will be taught in English, although students are welcome to speak and write in Swedish.

## ASSESSMENT

Term paper (in English or Swedish) – discussion and statistical analysis of supplied data or the student's own data.

If there are special reasons for doing so, an examiner may make an exception from the method of assessment indicated and allow a student to be assessed by another method. An example of special reasons might be a certificate regarding special pedagogical support from the University's disability coordinator.

Uppsala University does not accept cheating or plagiarism. Suspected incidents of cheating or plagiarism are reported to the Vice-Chancellor, who may issue a formal warning to the student or suspend the student from studies for a certain period.

NOTE: Only completed courses can count toward a degree.