

**Applied Statistical methods, Part II, 3.0 credits**

Tillämpade statistiska metoder, del II, 3.0 hp

Third-cycle education course

MAI0138

Department of Mathematics

Valid from: First half-year 2023

**Approved by**  
Head of Department

**Approved**

**Registration number**

## **Entry requirements**

MAIo137 Applied Statistical Methods – Part I

## **Learning outcomes**

The course is intended to apply different statistical methods to a real data set. By the end of the course, the student should be able to:

- use an appropriate probability model to describe and analyse observed data and draw conclusions concerning interesting parameters;
- explore the nature of the relationships between two or several variables by using different kinds of linear models and discuss the adequacy of the models;
- use suitable software (e.g., R, SAS, SPSS, Matlab, depending on the students interests) for certain types of statistical analyses.

## **Contents**

Analysis of data by using appropriate statistical software, e.g., R, SAS, SPSS, Matlab, depending on the students interests.

## **Educational methods**

Computer example classes.

## **Examination**

Statistical data analysis with an oral presentation. The statistical data analysis using statistical software should preferable be student oriented, i.e., the student could bring relevant datasets from his/her research field.

## **Grading**

One-grade scale

## **Course literature**

Depends on the students' choice of data.