

# Syllabus

for course at advanced level

**Analysis of Survey Data**

**Analys av surveydata**

**7.5 Higher Education**

**Credits**

**7.5 ECTS credits**

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| <b>Course code:</b>      | ST726A                                                                  |
| <b>Valid from:</b>       | Autumn 2010                                                             |
| <b>Date of approval:</b> | 2010-02-24                                                              |
| <b>Department</b>        | Department of Statistics                                                |
| <b>Main field:</b>       | Statistics                                                              |
| <b>Specialisation:</b>   | A1N - Second cycle, has only first-cycle course/s as entry requirements |

## Decision

This syllabus was approved by the Board of the Department of Statistics, Stockholm university on November 7, 2007.

## Prerequisites and special admittance requirements

90 ECTS credits in Statistics or equivalent and Swedish upper secondary school course English B or equivalent.

## Course structure

| <b>Examination code</b> | <b>Name</b>             | <b>Higher Education Credits</b> |
|-------------------------|-------------------------|---------------------------------|
| 11AE                    | Analysis of Survey Data | 7.5                             |

## Course content

The course consists of the following part:

1. Analysis of Survey Data.

The course covers how to use data collected in sample surveys for other purposes than purely descriptive ones. The course covers both simple and complex sample designs, for example designs with varying selection probabilities and the usual statistical analyses, such as logistic and multivariate regression, time series and structural equation models. The course also addresses how auxiliary information on the frame can be used in the analysis. The concepts of inference population and survey population are explained.

With today's rapid development in information technology, the use of survey data in complex analyses has become commonplace. The course provides skills that are often needed in order to exploit data fully, both in public debate and in research in the social and behavioural sciences.

## Learning outcomes

After completing the course, students should be able to:

- implement properly various types of regression analyses to data from surveys with different sampling designs
- use survey data in the context of structural equation models

- use frame information to improve analyses
- combine data from different surveys

### **Education**

Teaching forms consist of lectures, exercises and written reports. It is included a compulsory visit to a workplace. The instruction will be in English if necessary.

### **Forms of examination**

a. Examination will be done by measuring the knowledge of the learning outcomes. Examination will comprise compulsory exercises and written and/or oral tests.

b. Grading is done according to a 7-point scale related to the specified learning outcomes:

A = Excellent

B = Very Good

C = Good

D = Satisfactory

E = Sufficient

Fx = Insufficient

F = Completely insufficient

c. Grading criteria will be distributed at the beginning of the course.

d. To pass the entire course, a minimum grade of E is required.

e. Students who have received the grade Fx or F on an examination are entitled to at least four additional examinations to achieve the lowest grade E as long as the course is given.

Students who have received the grade E on an examination may not retake this examination in order to attempt to achieve a higher grade.

Students who have received the grade Fx or F on an examination on two occasions by the same examiner have the right to request that a different examiner be appointed to set the grade of the examination. Such a request must be in writing and sent to the head of the department.

Here, the term examination denotes all compulsory elements of the course.

### **Interim**

Students can request examination in accordance with this syllabus up to three times during a period of two years after the course is no longer given. Such a request must be in writing and sent to the head of the department.

Here, the term examination denotes all compulsory elements of the course.

### **Limitations**

---

### **Misc**

The course is mandatory in the Master programme in Survey Methodology and Official Statistics but it can also be studied as an independent course.

### **Required reading**

The course literature is described in an appendix to the syllabus.