

Syllabus

for course at advanced level

Analysis of Survey Data

Analys av surveydata

7.5 Higher Education

Credits

7.5 ECTS credits

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|--------------------------|---|
| Course code: | ST726A |
| Valid from: | Autumn 2014 |
| Date of approval: | 2010-02-24 |
| Changed: | 2014-03-12 |
| Department | Department of Statistics |
| Main field: | Statistics |
| Specialisation: | A1N - Second cycle, has only first-cycle course/s as entry requirements |

Decision

This syllabus is approved by the Board of the Department of Statistics, Stockholm University on November 7, 2007 and revised on March 12, 2014.

Prerequisites and special admittance requirements

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

Course structure

| Examination code | Name | Higher Education Credits |
|------------------|-------------------------|--------------------------|
| 11AE | Analysis of Survey Data | 7.5 |

Course content

The course consists of one course module:

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 linear and logistic regression and multi level 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 easy access to easy-to-use software, 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.

The course provides a basis for further advanced studies and research studies in Statistics.

Learning outcomes

To pass the course the student should be able to:

- implement various types of design- and model-based 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
- understand the difference between inference population and survey population

Education

The teaching consists of lectures and exercises.

Forms of examination

a. Examination will be done by measuring the knowledge of the learning outcomes. Examination will comprise a written test and a written and oral report of a compulsory exercise.

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

A = Excellent

B = Very Good

C = Good

D = Satisfactory

E = Adequate

Fx = Inadequate

F = Totally Inadequate

c. The assessment criteria for the course will be distributed at the beginning of the course.

d. In order to pass the course, the grade E or higher is required on the course unit.

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.

If a student has received the grade Fx on the written reports but is close to passing the assignment, there may be a possibility to hand in an additional assignment. The assignment should be handed in within the given time frame and after the examiner having advised on the need to revise the assignment.

Students who have received the grade E on an examination may not retake this examination in order 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. The request must be in writing and sent to the head of the department.

The examination denotes all compulsory elements of the course.

Every time the course is given, there should be two examination opportunities during the current semester.

Interim

When the course syllabus is withdrawn, the student has the right to request examination once per term during a period of three terms in accordance with this syllabus. The request must be in writing and sent to the head of department.

Limitations

The course may not be included in a degree together with the course Analysis of Survey Data (ST706A) 7,5 ECTS or equivalent.

Required reading

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