

Syllabus

for course at first level

Basic Statistics for Economists

Grundläggande statistik för ekonomer

15.0 Higher Education

Credits

15.0 ECTS credits

Course code: STE101
Valid from: Spring 2017
Date of approval: 2010-03-25
Changed: 2016-09-07
Department: Department of Statistics

Main field: Statistics
Specialisation: G1N - First cycle, has only upper-secondary level entry requirements

Decision

This syllabus was approved by the Board of the Department of Statistics on March 25 2010, and revised March 12 2014, and September 7 2016.

Prerequisites and special admittance requirements

Swedish upper secondary school courses English B, Mathematics C and Social Sciences A or equivalent.

Course structure

| Examination code | Name | Higher Education Credits |
|------------------|-----------------------------------------|--------------------------|
| 11ST | Statistics for Economists, Examination | 7.5 |
| 12EI | Econometrics, Compulsory Exercise | 3 |
| 13MI | Market Surveys, Compulsory Exercise | 3 |
| 14BI | Data for Decisions, Compulsory Exercise | 1.5 |

Course content

The course consists of one course unit and is examined in accordance with four examination codes, "Exam 1" has the examination code 11ST, "Exam 2" has the examination code 12EI, "Exam 3" has the examination code 13MI and "Exam 4" has the examination code 14BI.

The course provides basic knowledge about descriptive statistics, various data sources such as official statistics, databases and statistical directories, probability theory and stochastic variables and their distributions, inference such as point- and interval estimation and hypothesis testing, different types of surveys, sampling methods, data collection methods and questionnaire construction, various types of errors and quality report, correlation measures and simple and multiple regression, time series and predictions. Critical thinking about the treated concepts, definitions and methods is emphasized.

Learning outcomes

To pass the course the student shall be able to:

- I. identify, solve and interpret elementary statistical problems with economic applications,
- II. handle and interpret basal models within regression- and time series analysis,
- III. plan a market survey and carry out and compare different types of sampling methods,
- IV. find appropriate data sources as a basis for decision making

Education

The teaching forms consist of lectures and exercises. Individual written examinations and oral examinations

of group work are compulsory. The requirements for the different examinations are specified in the section of Forms of examination, below. Students who receive the grade Fx or F on an examination have to re-take the examination. The schedules for the examinations are determined one month before the start of the course.

Forms of examination

Examination will be done by assessing the learning outcomes. Examination will be in the form of written and oral examination.

The grading of the course is done according to a seven-point scale:

A = Excellent,
B = Very Good,
C = Good,
D = Satisfactory,
E = Adequate,
Fx = Fail, some more work is required,
F = Fail, a lot of more work is required

The grading criteria will be distributed at the beginning of the course.

Exam 1 is a written individual examination. Exam 1 examines the learning outcomes I and II. The grading of Exam 1 is done according to the above seven-point scale, where the grades F and Fx requires a re-examination.

Exam 2 is a hand-in group assignment, with a written presentation. Exam 2 examines the learning outcomes I and II. The individual performance within the group have to be documented and examined. The grading of Exam 2 is done according to a two-point scale related to the learning outcomes:

G
= Pass, U = Fail.

Exam 3 is a hand-in group assignment, with both written and oral presentations. Exam 1 examines the learning outcomes I and III. The individual performance within the group have to be documented and examined. The grading of Exam 2 is done according to a two-point scale related to the learning outcomes:

G
= Pass, U = Fail.

Exam 4 is a hand-in group assignment, with a written presentation. Exam 4 examines the learning outcomes I and IV. The individual performance within the group have to be documented and examined. The grading of Exam 4 is done according to a two-point scale related to the learning outcomes: G = Pass, U = Fail.

To pass the entire course, a minimum grade of E for exam 1 and Pass for exams 2, 3 and 4 is required. The grade for the whole course when all exams are passed will be equal to the grade on exam 1.

There shall be two examination sessions for all exams within a course period. If there is only one course period within twelve months, there shall be one more examination session for each exam.

Students who have received the grade Fx or F on an examination are entitled to retake the examination as long as the course is still given.

Students who have received the grade E or higher 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 exam 1 or U on exams 2, 3 or 4, on two occasions by the same examiner are entitled to request that a different examiner will be appointed to set the grade of the examination. Such a request must be in writing and sent to the head of the department.

Interim

Students can request examination in accordance with this syllabus once per semester during a period of three semesters after the course is no longer given. Such a request must be in writing and sent to the head of the department.

Limitations

The course can not be included in a degree together with the course Fundamentals of Statistics (ST 110G)

15

ECTS credits, Basic Statistics for Economists (STE100) 15 ECTS credits, or equivalent

Required reading

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