



Course syllabus

School of Business and Economics
Department of Economics and Statistics

1ST060 Ekonomisk statistik I, 7,5 högskolepoäng
Business Statistics I, 7.5 credits

Main field of study
Statistics

Subject Group
Statistics

Level of classification
First Level

Progression
G1N

Date of Ratification
Approved by School of Business and Economics 2015-06-26
The course syllabus is valid from spring semester 2016

Prerequisites
General entry requirements and Civics 1b / 1a1 +1a2, Mathematics 3b / 3c or Civics A, English B, Mathematics C (Field-specific entry requirements 4/A4).

Objectives

After completing the course the student is expected to be able to:

- discuss the meaning of statistical averages and dispersion
- describe the differences between point estimation and interval estimation
- explain the duality between statistical testing and interval estimation
- discuss the meaning and relevance of the central limit theorem
- present, summarise and analyse data using SPSS
- calculate simple probabilities
- test statistical hypotheses regarding averages
- assess the general usability and limitations of the statistical methods used in the course.

Content

The course contains:

- descriptive statistics
- probabilities and combinatorics
- random variables
- basic discrete and continuous distributions,
- samples and sample distribution, especially the central limit theorem
- point and interval estimation of averages
- hypothesis testing of averages

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Type of Instruction

Teaching consists of lectures and group work. Obligatory parts are stated in the schedule.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

The examination consists of a written examination and a computer laboration with hand-in assignment.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail.

After each regular examination there will be at least one new examination in close proximity to the date the results of the regular exam were posted. A minimum of five occasions for written exams will be offered in relation to the syllabus to which the student was accepted. Usually three occasions per academic year are offered. Students that fail reports can complement after instructions from the examiner to obtain a pass grade.

Grading criteria for the A–F scale are communicated in writing to the student by the start of the course/module at the latest, as well as how grades on separate elements of examination are weighed to a final course grade.

Course Evaluation

During the implementation of the course or in close connection to the course a course evaluation is to be carried out. Result and analysis of the course evaluation is to be presented as feedback both to the students who have completed the course and to the students who are to participate on the course the next time it is offered. The course evaluation is to be carried out anonymously.

Credit Overlap

The course cannot be included in a degree along with the following course/courses of which the content fully, or partly, corresponds to the content of this course: The course overlaps 1ST801 with 100 %, and 1ST903 and 1ST902 with 50 % each

Required Reading and Additional Study Material

Required reading

Anderson, D-R., Sweeney, D-J., Williams, T-A., Freeman, J. & Shoesmith, F. *Statistics for Business and Economics*. SouthWestern Cengage Learning. Latest edition. 638 pages.