



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 2019-10-30

Revised 2019-10-30 by School of Business and Economics.

The course syllabus is valid from spring semester 2021

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 and use of measures of centrality and measures of spread
- describe the difference between point estimators and interval estimators
- interpret and apply interval estimates
- describe the meaning and relevance of the central limit theorem
- present, summarize and analyze data by using SPSS, in a written document/report
- calculate elementary probabilities
- test hypotheses about measures of centrality
- critically assess and judge the uses and limitations of the statistical methods treated in the course

Content

The course contains:

- descriptive statistics
- probabilities and combinatorics
- random variables
- elementary discrete and continuous distributions
- sampling and sampling distributions, in particular the central limit theorem
- point- and interval estimates of measures of centrality

Type of Instruction

Teaching consists of lectures and computer group exercises. Compulsory elements are stated in the schedule.

Examination

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

The course is examined through an online query (1 credit with grade pass or fail), a computer exercise with hand in assignments (1.5 credits with grade pass or fail) and a final written exam (5 credits with grades from A-F).

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. Students who are close to the passing grade of reports can complement after instructions and time-frame given by 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 at the latest.

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 courses of which the content fully, or partly, corresponds to the content of this course: The course overlaps 1ST801 and 1ST904 with 100 %, and 1ST902 and 1ST903 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. About 640 pages.

Additional study material

SPSS online manual (this electronic resource is part of the software SPSS. The manual cannot, and should not, be bought).