



## Course syllabus

School of Business and Economics

Department of Economics and Statistics

1ST060 Ekonomisk statistik I, 7,5 högskolepoäng

1ST060 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 2022-06-07 by School of Business and Economics. Revision of field specific entry requirements as well as update of standard texts.

The course syllabus is valid from spring semester 2023

### **Prerequisites**

General entry requirements + English 6, Mathematics 3b alt. Mathematics 3c and Civics 1b alt. Civics 1a1 +1a2.

## Objectives

After completing this course the student should 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

The teaching consists of lectures and computer group exercises.

## Examination

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

The course is examined through a digital query (1 credit), a computer exercise with hand in assignment (1.5 credits) and a written examination (5 credits).

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. Grading criteria for the A–F scale are communicated in writing to the student by the start of the course at the latest, as well as how the weighting and weighting of grades on individual examining elements to the final course grade takes place. The basis for the student's grade is determined by the student's fulfillment of the objectives.

Repeat examination is offered in accordance with Local regulations for courses and examination at the first and second-cycle level at Linnaeus University. An examiner can, in exceptional cases, decide that a student who is close to the level for a passing grade may carry out supplementary assignments in order to reach the passing grade.

If the university has decided that a student is entitled to special pedagogical support due to a disability, the examiner has the right to give a customised exam or to have the student conduct the exam in an alternative way.

## Course Evaluation

During the implementation of the course or in close conjunction with the course, a course evaluation is to be carried out. Results and analysis of the course evaluation are to be promptly presented as feedback to the students who have completed the course. Students who participate during the next course instance receive feedback at the start of the course. 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: 1ST801 and 1ST904:1 with 7.5 credits each.

1ST902 and 1ST903 with 4 credits each.

## Required Reading and Additional Study Material

### Required reading

Anderson, D-R., Sweeney, D-J., Williams, T-A., Freeman, J. & Shoemith, 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).