Linnæus University

Course syllabus

School of Business and Economics
Department of Economics and Statistics

1ST903 Ekonomisk statistik, 7,5 högskolepoäng
Business Statistics, 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 A, Mathematics C or Civics 1b / 1a1 +1a2, Mathematics 3b / 3c (Field-specific entry requirements 4/A4).

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

- apply descriptive statistics, that is, compile and present different types of data material as well as calculate and interpret different summarised measures
- from selection, draw conclusions about the characteristics of populations
- analyse and interpret the correlation between survey variable and one explanatory variable
- perform elementary time series analyses and make quantitative predictions
- explain ideas and principles with statistical inference
- carry out fundamental tests
- use statistical software
- carry out a statistical survey according to recognized methodology

Content
The course contains:

- descriptive statistics
- selection methodology
- simple regression analysis
- elementary time series analysis and quantitative prediction methods
- statistical inference theory (confidence intervals and hypothesis exercises)

- survey methodology

Type of Instruction
Teaching is in the form of lectures, seminars and group assignments. Group assignments are made up of, with help of a statistics programme, compiling, analysing and presenting quantitative data material. Teaching and examinations are carried out as distance learning with help from a learning platform and consists of self-studies based on instructions from the course coordinator. The course requires access to a computer and the internet. No mandatory meetings on campus are included.

Examination
The course is assessed with the grades A, B, C, D, E, Fx or F.
The assessment of the performance of the students is based on two assignments, a questionnaire task and a written exam.

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
This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: The course overlaps 1ST902 with 100 %, and 1ST801, 1ST060, 1ST061 and 1ST802 with 50 % each.

Required Reading and Additional Study Material
Required reading
Dahmström, K. *Från datainsamling till rapport*. Studentlitteratur. Latest edition. 489 pages.

Körner, S. & Wahlgren L. *Praktisk Statistik*. Studentlitteratur AB. Latest edition. 266 pages.