

Introductory Statistics, basic course

Single subject and programme course

7.5 credits

Grundläggande statistik, grundkurs

732G01

Valid from: 2012 Autumn semester

Determined by

The Quality Board at the Faculty of Arts
and Sciences

Date determined

2007-01-22

Revision date

2012-10-01

Main field of study

Statistics

Course level

First cycle

Advancement level

G1N

Course offered for

- Bachelor´s Programme in Political science and economics

Entry requirements

General entry requirements for undergraduate studies
and

Mathematics and Social Studies corresponding to the level in Swedish upper
secondary education (Matematik 3 and Samhällskunskap 1b/(1a1 och 1a2)

and

English corresponding to the level of English in Swedish upper secondary
education (English 6/B)

Intended learning outcomes

The aim of the course is that the student should acquire an overview of central
concepts and points of view in statistics.

On completion of the course, the student should

- be able to use knowledge about the most common statistical inference methods
and probability models,
- have the ability to use statistical methods for analysis of data
- in a knowledgeable way, be able to assess the quality of data and interpret results
of analyses.

Course content

The following is studied in the course

- models of descriptive statistics,
- search for and presentation of information in national databases,
- probability models for one and multiple random variables,
- statistical inference with significance testing and interval estimation.

Teaching and working methods

The teaching takes the form of lectures, teaching sessions, computer exercises and project work.

Language of instruction: Swedish.

Examination

The course is examined through written examination and presentation of a project work.

If the LiU coordinator for students with disabilities has granted a student the right to an adapted examination for a written examination in an examination hall, the student has the right to it. If the coordinator has instead recommended for the student an adapted examination or alternative form of examination, the examiner may grant this if the examiner assesses that it is possible, based on consideration of the course objectives.

Students failing an exam covering either the entire course or part of the course twice are entitled to have a new examiner appointed for the reexamination.

Students who have passed an examination may not retake it in order to improve their grades.

Grades

Three-grade scale, U, G, VG

Other information

Planning and implementation of a course must take its starting point in the wording of the syllabus. The course evaluation included in each course must therefore take up the question how well the course agrees with the syllabus.

The course is carried out in such a way that both men's and women's experience and knowledge is made visible and developed.

Department

Institutionen för datavetenskap