

Visual data analysis

Single subject and programme course

6 credits

Visuell dataanalys

732G31

Valid from:

Determined by

The Quality Board at the Faculty of Arts
and Sciences

Date determined

2010-04-23

Main field of study

Statistics

Course level

First cycle

Advancement level

G1X

Course offered for

- Bachelor's Programme in Statistics and Data Analysis

Entry requirements

For admission to the course, general entry requirements apply, as well as MA C and Sh A.

Intended learning outcomes

On completion of the course, the student should be able to:

- account for the role of visualisation methodology in data analysis,
- apply modern visualisation methods, both static and interactive,
- select appropriate visualisation techniques for current problems,
- interpret the results acquired,
- account for explorative data analysis in common statistical programs.

Course content

The course aims to have the student acquire and develop a constructive approach to how statistical data can be illustrated and to introduce common statistical programs.

The following is studied in the course

- one-dimensional visualisation of cross-section data,
- one-dimensional visualisation of time evolution,
- one-dimensional visualisation for comparisons,
- m-dimensional visualisation of cross-section data,
- m-dimensional visualisation of time evolution,
- m-dimensional visualisation for comparisons,
- interactive diagram types,
- descriptive statistics in statistical programs.

Teaching and working methods

Apart from independent studies consists the teaching of lectures, computer exercises and teaching sessions. The lectures provide an overview of the course contents and addresses central concepts and methods. The computer exercises put theory into practice. The teaching sessions consist of overviews of the more complex practical assignments.

Examination

The course is examined through individual written examination and through, in groups, written presentations of completed computer exercises. Detailed information can be found in the study guide.

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