STK200   Statistics: Intermediate course 1, 15 credits

Statistik: Fortsättningskurs 1, 15 högskolepoäng

First Cycle

Confirmation

This course syllabus was confirmed by Department of Economics on 2019-08-07 and was last revised on 2019-11-15 to be valid from 2020-01-20, spring semester of 2020.

Field of education: Social Sciences 100%

Department: Department of Economics

Position in the educational system

This is a 15 ECTS intermediate course in statistics at first-cycle level.

The course can be part of the following programmes: 1) European Studies Program (S1EUR) and 2) Program in Political Science (S1STV)

Main field of studies	*Specialization*
Statistics	G1F, First cycle, has less than 60 credits in first-cycle course/s as entry requirements

Entry requirements

Admission to the course requires previous knowledge of 30 ECTS in statistics or equivalent, of which at least 15 ECTS must be completed.

Learning outcomes

On successful completion of the course the student will be able to:

1. account for the relationship between linear algebra and show basic knowledge in statistical learning.
2. demonstrate the ability to independently use specified programs for data management, such as merging and filtering data sets.

3. show the ability to independently use specified program packages for descriptive statistics, inference, linear models and statistical learning.
4. show that you have such skills that you can carry out basic programming.
5. critically review statistical material and report in writing on relevant parts of this material.

How overall leraning goals of the bachelor's degree are related to the learning outcomes of the course:

Overall learning goals	Learning outcomes
Knowledge and understanding	1
Skills and abilities	2+3+4
Judgement and approach	5

Course content

Statistics: Intermediate course 1 partially builds on the courses Statistics 1, Statistics 2A and Statistics 2B and covers theoretical and practical aspects of basic statistical learning. The course is mainly centered around implementation of statistical learning using a non-commercial statistical programming package.

Form of teaching

The course material is mainly in flipped classroom fashion, using videos as preparation for labs and classroom discussions.

Language of instruction: Swedish
Teaching activities in English may occur.

Assessment

Learning outcomes 1-5 are examined through four compulsory written assignments and a written examination. See separate course guide on the course homepage for details regarding forms for assessment and compulsory parts.

If a student, who has failed the same examined element on two occasions, wishes to change examiner before the next examination session, such a request is to be submitted to the department in writing and granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

In the event that a course has ceased or undergone major changes, students are to be guaranteed at least three examination sessions (including the ordinary examination session) over a period of at least one year, though at most two years after the course has

ceased/been changed.

Grades

The grading scale comprises: Excellent (A), Very good (B), Good (C), Satisfactory (D), Sufficient (E) and Fail (F).

To pass the course, the student must pass the exam and also the four submissions during the same course period. If a student fails the exam but has passed all four submissions, the approved result on the submissions is valid until the next time the course starts. In order to receive a higher grade on the course, all four assignments are approved and a higher grade on the written exam.

Course evaluation

Course evaluation is done digitally and anonymously at the end of the course.

The survey material is compiled and the results from the course evaluation and proposals for possible improvement measures are discussed at the course committee meeting. After the course evaluation is completed, the result will be published at the course homepage.

If a change of course is done based on the course evaluation, this will be communicated at the course introduction for the upcoming student group.