School of Economics and Management

STAA46, Statistics: Business Statistics II, 5 credits

Statistik: Statistik för international business II, 5 högskolepoäng

First Cycle / Grundnivå

Details of approval

The syllabus was approved by The Board of the Department of Statistics on 2024-08-26 (U 2024/518). The syllabus comes into effect 2024-09-01 and is valid from the spring semester 2025.

General information

The course is a compulsory course in BSc in International Business (EGIBU) and may also be taken by exchange students.

Language of instruction: English

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

Learning outcomes

Knowledge and understanding

After completed course, the student will

- be able to explain fundamental statistical concepts such as point estimate, confidence interval, hypothesis testing, and p-value,
- be able to describe the difference between simple linear, multiple linear, and logistic regression, and
- be able to explain how analysis of variance is used.

Competence and skills

After completed course, the student will

- be able to calculate confidence intervals and p-values,
- be able to construct, evaluate, and interpret a statistical hypothesis,
- be able to construct, estimate, and interpret a regression model,
- be able to use statistical software to implemnt the calculations listed above, and
- be able to present the result of statistical analyses orally and in writing.

Judgement and approach

After completed course, the student will

- be able to interpret a statistical hypothesis,
- be able to evaluate and interpret a statistical analysis e.g., a regression analysis,
- be able to suggest an appropriate analysis for a given problem, and
- be able to make assessments with regard to relevant statistical and ethical aspects when collecting and analysing data.

Course content

There are two main components of the course. The first component is the theory of fundamental statistics. The course begins with a repetition of confidence interval, Student's t-distribution, hypotheses testing, and p-value. It then covers

- analysis of variance (ANOVA),
- regression models: simple linear regression, multiple linear regression, and logistic regression, and
- statistical model choice.

The second component is the implementation of the first part using statistical software.

Course design

The course consists of lectures, exercise sessions, computer labs, and a final seminar. The lectures and the exercise sessions will deal mostly with the theoretical part of the course. The computer sessions will focus on the usage of statistical software. During the course, the students will carry out a group project, which is presented at the seminar.

Assessment

The course examination consists of a written exam, quizzes, and a group project presented both orally and in writing

The University views plagiarism very seriously, and will take disciplinary actions against students for any kind of attempted malpractice in examinations and assessments. Plagiarism is considered to be a very serious academic offence. The penalty that maybe imposed for this, and other unfair practice in examinations or assessments, includes suspension from the University.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Grades

Grading scale includes the grades: U=Fail, E=Sufficient, D=Satisfactory, C=Good, B=Very Good, A=Excellent

A (Excellent) 85-100 points/percent. A distinguished result that is excellent with regard to theoretical depth, practical relevance, analytical ability and independent thought.

B (Very good) 75-84 points/percent. A very good result with regard to theoretical depth, practical relevance, analytical ability and independent thought.

C (Good) 65-74 points/percent. The result is of a good standard with regard to theoretical depth, practical relevance, analytical ability and independent thought and lives up to expectations.

D (Satisfactory) 55-64 points/percent. The result is of a satisfactory standard with regard to theoretical depth, practical relevance, analytical ability and independent thought.

E (Sufficient) 50-54 points/percent. The result satisfies the minimum requirements with regard to theoretical depth, practical relevance, analytical ability and independent thought, but not more.

F (Fail) 0-49 points/percent. The result does not meet the minimum requirements with regard to theoretical depth, practical relevance, analytical ability and independent thought.

To pass the course, the students must have been awarded the grade of E or higher.

The final grade on the course is determined as a weighting of the results on the exam (70%) and the project (30%). On the individual tests, only grades of pass or fail are given.

Entry requirements

Access to the course requires general entry requirements and STAA45 Statistics: Business Statistics I, 7.5 ETCS or the equivalent.

Further information

STAA45 and STAA46 together replace STAA35 and STAA36.

STAA46 may not be combined with STAA35 or STAA36 in a degree.

If the the course is discontinued, another three exam opportunities will be arranged within one year after the regular exam.