



Faculty of Arts and Social Sciences

Statistics

Syllabus

Course Approval

The syllabus was approved by the Faculty Board of Arts and Social Sciences on 20 February 2014, and is valid from the Autumn semester of 2014 at Karlstad University.

Course Code: STGA04

Statistics - continuation course for business administration, 15.0 ECTS Credits

(Statistik - fortsättningskurs för ekonomer, 15.0 Swedish credit points)

Degree Level: Bachelor

Progressive Specialisation: G1F (First cycle, has less than 60 credits in first-cycle course/s as entry requirements)

Language of Instruction

Swedish

Prerequisites

Statistics 15 ECTS cr

Major Field of Study

STA (Statistics)

Learning Outcomes

Upon completion of the course, students should be able to:

- compile and graphically present different types of computer data consisting of multiple variables, and estimate and interpret summary measure,
- understand statistical models comprising one or several variables,
- define point estimates and given an account of their properties,
- perform statistical inference for statistical models and interpret the results,
- critically use and evaluate different statistical methods, and
- use a statistical software as an aid in statistical analysis.

Content and Form of Instruction

The course deals with the following components:

- deepened data collection and analysis
- compiling and presenting data
- models of linear regression, model specification, and residual analysis
- time series analysis with systematic components
- multicollinearity, heteroscedasticity, and autocorrelation
- point and interval estimates and their properties
- introduction to variance analysis and non-parametric methods.

Reading List

See separate document.

Examination

Assessment is based on presentations of group tasks discussed in seminar and a written exam.

Grades

One of the grades Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course assessment is based on student views and experiences as reported in written course evaluations and/or group discussions. Students will be informed of the result of the evaluation and of the measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional Information

Students who enrolled before 1 July 2007 will complete their studies in accordance with the requirements of the earlier admission. Upon completion students may request degree and course certificates to be issued under the current ordinance if they meet its requirements.

The local regulations for studies at the Bachelor's and Master's levels at Karlstad University stipulate the obligations and rights of students and staff.

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