



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: STGC01

Statistical Theory, 7.5 ECTS Credits

(Statistisk teori, 7.5 Swedish credit points)

Degree Level: Bachelor

Progressive Specialisation: G2F (First cycle, has at least 60 credits in first-cycle course/s as entry requirements)

Language of Instruction

Swedish, or English, if required

Prerequisites

Statistics 60 ECTS cr.

Major Field of Study

STA (Statistics)

Learning Outcomes

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

- explain the principles underlying the hypothesis test in different testing situations,
- perform probability quotation test and derive the maximum critical area in probability quotation tests, and
- explain and discuss in detail the lines of thought principles underlying statistical inference.

Content and Form of Instruction

The course focuses on inference theory and comprises the following components:

- the concept of hypothesis test, for example, the strength of test and probability quotation test,
- chi-two test and non-parametrical methods,
- introduction to Bayesian statistics.

Reading List

See separate document.

Examination

Assessment is based on hand-in assignments and an oral 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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