Faculty of Arts and Social Sciences
Statistics

Syllabus

Linear models I

Course Code:	STGB22
Course Title:	Linear models I *Linjära modeller I*
Credits:	7.5
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has less than 60 credits in first-cycle course/s as entry requirements (G1F)

Major Field of Study:
STA (Statistics)

Course Approval
The syllabus was approved by the Faculty of Arts and Social Sciences 2017-03-15, and is valid from the Autumn semester 2017 at Karlstad University.

Prerequisites
Statistics 30 ECTS credits

Learning Outcomes
Upon completion of the course, students should be able to:
- identify and apply relevant statistical methods,
- analyse linear and log linear models,
- analyse non-linear regression models,
- analyse regression with qualitative dependent variable, and
- use R command to analyse data material.

Content
The course comprises the following components:
- multiple regression model
- log linear models
- non-linear regression models
- regression with qualitative dependent variable
- R command

Reading List
See separate document.

Examination
Assessment is based on a written exam and individual hand-in assignments.

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 evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate
A course certificate will be provided upon request.

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