

COURSE SYLLABUS

Business Statistics 2, 7.5 credits

Business Statistics 2, 7,5 högskolepoäng

Course Code:	FSEK13	Education Cycle:	First-cycle level
Confirmed by:	Council for Undergraduate and Masters Education Jan 4, 2013	Disciplinary domain:	Technology
Valid From:	Jul 1, 2013	Subject group:	ST1
Version:	1	Specialised in:	G1F
Reg number:	IHH 2014/2179-122	Main field of study:	Statistics

Intended Learning Outcomes (ILO)

On completion of the course the students will be able to:

Knowledge and understanding

- Understand the limitations of model based statistics
- Discuss the pros and cons of model based and parametric inference
- Explain the difference between random sample data and time series data
- Explain the potential of various sampling methods
- State the meaning and importance of interval estimates and prediction intervals respectively

Skills and abilities

Among the methods (statistical "tools") included in the course, the students will be able to:

- Determine the appropriate model for a certain statistical problem
- Identify a miss-specified model
- Conduct basic statistical analyses in SPSS
- Present a statistical analysis in a readable document

Judgement and approach

Among the methods (statistical "tools") included in the course, the students will be able to:

- Assess the general usefulness/weaknesses of the statistical analyses treated in the course

Contents

Some major topics covered in this course are:

Simple linear regression,

- Correlation analysis,
- Simple linear regression,
- Multiple regressions,
- Time series analysis,
- Nonparametric methods and chi-square tests,
- Sampling methodology.

Type of instruction

Lectures and computer lab exercises.

The teaching is conducted in English.

Prerequisites

30 credits including Business Statistics 1, 7.5 credits.

Examination and grades

The course is graded A, B, C, D, E, FX or F.

The ILOs within Knowledge and understanding will be graded by a written exam while the ILOs within skills and abilities will be graded by computer assignments. The ILOs within Judgment and approach will be graded by both the written exam and the computer assignments.

Registration of examination:

Name of the Test	Value	Grading
Examination ¹	6 credits	A/B/C/D/E/FX/F
Assignments	1.5 credits	U/G

¹ Determines the final grade of the course, which is issued only when all course units have been passed.

Course evaluation

At the outset of the course the course manager ensures that course evaluators are elected (or exist) among the students. The course evaluation is carried out continuously as well as at the end of the course. On the completion of the course the course evaluators and course manager discuss the course evaluation and possible improvements. The result is reported to, among others, the Associate Dean for Education, the Council for Undergraduate and Master Education, and the Board of Directors of JIBS. The course manager shall at the outset of the following course report results and measures taken in the previous course evaluation.

Course literature

Literature

Anderson, Sweeney, Freeman, Williams and Shoemith. (2010). Statistics for Business and Economics. ISBN 978-1-4080-1810-1. South-Western CENGAGE learning. Latest edition.