JÖNKÖPING INTERNATIONAL BUSINESS SCHOOL
JÖNKÖPING UNIVERSITY

COURSE SYLLABUS
Business Statistics 1, 7.5 credits

Business Statistics 1, 7,5 högskolepoäng

Course Code:	FSFG13	Education Cycle:	First-cycle level
Confirmed by:	Council for Undergraduate and Masters Education Jan 4, 2013	Disciplinary domain:	Technology
		Subject group:	ST1
Valid From:	Jul 1, 2013	Specialised in:	G1N
Version:	1	Main field of study:	Statistics
Reg number:	IHH 2014/2178-122		

Intended Learning Outcomes (ILO)

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

Knowledge and understanding

- Discuss the role of centrality measures vs measures of spread
- State the difference between point estimates and interval estimates
- Explain the concept of randomness
- Explain the duality between hypothesis tests and confidence intervals
- Discuss the meaning- and use of the central limit theorem

Skills and abilities

- Present and summarize data graphically
- Calculate elementary probabilities
- Test statistical hypotheses concerning measures of centrality

Judgement and approach

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

Contents

Some major topics covered in this course are:
- Descriptive statistics,
- Probability,
- Random variables,
- The normal distribution,
- Sampling and sampling distributions,
- Confidence intervals,
- Hypothesis testing.

Analysis of variance or contingency table analysis may also be covered.

Type of instruction

Lectures and computer labs.

The teaching is conducted in English.

Prerequisites

General entry requirements and English B, Mathematics C and Civics A (Field-specific entry requirements 4)and required grade Passed.

Exemption from the requirement of having Swedish course B is given.

Examination and grades

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

The ILO´s within Knowledge and understanding will be examined through a written exam while the ILO´s within Skills and abilities will be examined through computer assignments. The ILO´s within Judgment and approach will be examined through 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

Compulsory literature

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