



COURSE SYLLABUS

Business Statistics I, 7.5 credits

Business Statistics I, 7,5 högskolepoäng

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|---------------|---|----------------------|-------------------|
| Course Code: | FSFG13 | Education Cycle: | First-cycle level |
| Confirmed by: | Council for Undergraduate and Masters Education Oct 22, 2014 | Disciplinary domain: | Technology |
| Revised by: | Examiner Jun 10, 2015 | Subject group: | ST1 |
| Valid From: | Aug 24, 2015 | Specialised in: | G1N |
| Version: | 2 | Main field of study: | Statistics |
| Reg number: | 2015/1657-313 IHH | | |

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

It is the responsibility of the examiner to ensure that each course is evaluated. At the outset of the course, evaluators must be identified (elected) 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 examiner discuss the course evaluation and possible improvements. A summary report is created and archived. The reports are followed up by program directors and discussed in program groups and with relevant others (depending on issue e.g. Associate Dean of Education, Associate Dean of faculty, Director of PhD Candidates, Dean and Director of Studies). The next time the course runs, students should be informed of any measures taken to improve the course based on the previous course evaluation.

Other information

Academic integrity

JIBS students are expected to maintain a strong academic integrity. This implies to behave within the boundaries of academic rules and expectations relating to all types of teaching and examination. Copying someone else's work is a particularly serious offence and can lead to disciplinary action. When you copy someone else's work, you are plagiarizing. You must not copy sections of work (such as paragraphs, diagrams, tables and words) from any other person, including another student or any other author. Cutting and pasting is a clear example of plagiarism. There is a workshop and online resources to assist you in not plagiarizing called the Interactive Anti-Plagiarism Guide. Other forms of breaking academic integrity include (but are not limited to) adding your name to a project you did not work on (or allowing someone to add their name), cheating on an examination, helping other students to cheat and submitting other students work as your own, and using non-allowed

electronic equipment during an examination. All of these make you liable to disciplinary action.

Course literature

Compulsory literature

Anderson, Sweeney, Freeman, Williams and Shoemith. Statistics for Business and Economics. South-Western CENGAGE learning. Latest edition.