JÖNKÖPING UNIVERSITY
Jönköping International Business School

COURSE SYLLABUS

Business Statistics 2, 7.5 credits

Business Statistics 2, 7.5 högskolepoäng

Course Code:	JB2K17	Education Cycle:	First-cycle level
Confirmed:	Jan 27, 2025	Disciplinary domain:	Technology
Valid From:	Sep 01, 2025	Subject group:	Statistics
		Specialised in:	G1F First cycle, has less than 60 credits in first-cycle course/s as entry requirements
		Main field of study:	Statistics

Intended Learning Outcomes (ILO)

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

Knowledge and understanding

- Explain 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

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

Judgment 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

Content

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.

Language of instruction is in English.

Entry requirements

General entry requirements and Business Statistics 1, 7.5 credits (or the equivalent). Proof of English proficiency is required.

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.

All parts of the compulsory examination in the course must be passed with a passing grade (A-E or Pass) before a final grade can be set. Grade is set in accordance to JIBS grading policy.

Registration of examination:

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

Course evaluation

It is the responsibility of the examiner to ensure that each course is evaluated. At the outset of the course, the programme evaluators in the course must be contacted. In the middle of the course, the examiner should meet the programme evaluators to identify strengths/weaknesses in the first half of the course. At the end of the course, the examiner should remind students to fill in the survey. The examiner should also call a meeting with the programme evaluators to debrief the course, based on course evaluation data and comments. The next time the course runs, students should be informed of any measures taken to improve the course based on the previous course evaluations. At the end of each study period, JIBS' Director of Quality and Accreditation crafts a "Course Evaluation Quarter Report", presenting the quantitative results from course evaluation surveys. The Associate Dean of Education, The Associate Deans of Faculty, Programme Directors, and JSA President and Quality receive the report.

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 plagiarising. 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 plagiarising 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

Please note that changes may be made to the reading list up until eight weeks before the start of the course.

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