



## PROGRAMME IN BUSINESS AND ECONOMICS

### **EKS111 Statistics 1a, 8 credits**

Statistik 1a, 8 högskolepoäng

*First Cycle*

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#### **Confirmation**

This course syllabus was confirmed by Programme in Business and Economics (ICU) on 2022-11-03 to be valid from 2023-08-28, autumn semester of 2023.

*Field of education:* Social Sciences 100%

*Department:* Programme in Business and Economics

*Other participating department*

Department of Economics

#### **Position in the educational system**

The course is offered in the first cycle and is included in the first semester of the Bachelor's Programme in Business and Economics. It is not offered as a single-subject course.

The course can be part of the following programme: 1) Bachelor's Programme in Business and Economics (S1EKA)

*Main field of studies*

Statistics

*Specialization*

G1N, First cycle, has only upper-secondary level entry requirements

#### **Entry requirements**

General entrance requirements for university studies and the Swedish upper secondary courses English 6, Mathematics 3b/3c, Civics 1b/1a1+1a2 or equivalent.

#### **Learning outcomes**

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

1. Describe, analyse and present nominal, ordinal, interval and ratio level data by means of tables, diagrams and various summary measures.
2. Perform simple probability calculations, point and interval estimations and hypothesis testing for one or two populations.
3. Interpret statistical analysis results regarding the parameters of one or two populations.

### **Course content**

Statistics are often extremely valuable when important decisions are made concerning financial matters, community planning, environmental measures, technology and healthcare. The course introduces students to methods utilised to compile, present and calculate summary measurements for the description of statistical data. Basic probability calculations are also covered. Additionally, the course includes hypothesis testing, point estimation and interval estimation for one or two populations.

Computers are obvious and invaluable tools in the analysis of statistical data. The course literature and lectures will exemplify how data analysis is completed by using computer programs for calculations and data handling.

The course includes two non-compulsory assignments.

### **Form of teaching**

Instruction is provided via lectures, exercises and labs.

*Language of instruction:* English

### **Assessment**

Learning outcomes 1-3 are examined via a written examination completed individually.

In addition to the compulsory written examination, there are two non-compulsory written assignments that provide students with the opportunity of earning extra points. Students can only participate in the written assignments and earn extra points while they are registered on the course.

If a student, who has failed the same examined element on two occasions, wishes to change examiner before the next examination session, such a request is to be submitted to the department in writing and granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

If a student has received a recommendation from the University of Gothenburg for special educational support, where it is compatible with the learning outcomes of the course and provided that no unreasonable resources are required, the examiner may decide to allow the student to sit an adjusted exam or alternative form of assessment.

In the event that a course has ceased or undergone major changes, students are to be

guaranteed at least three examination sessions (including the ordinary examination session) over a period of at least one year, though at most two years after the course has ceased/been changed.

**Grades**

The grading scale comprises: Excellent (A), Very good (B), Good (C), Satisfactory (D), Sufficient (E) and Fail (F).

To obtain a passing course grade, students must receive a passing grade on the individual written examination. To determine the final grade, points from the non-compulsory assignments, if any, are combined with the points received from the written examination. Any extra points earned from the non-compulsory assignments are only valid during the course (initial examination and two re-examinations).

**Course evaluation**

Upon completion, the course will be evaluated in accordance with the rules for course evaluations established by the Bachelor's Programme in Business and Economics at the School of Business, Economics and Law. The results of the evaluation as well as any changes to the course structure shall be communicated to both the students who completed the evaluation and the students who are enrolled in the subsequent round of the course.