



PROGRAMME SYLLABUS

(This is a translation of the Swedish programme syllabus)

Statistikerprogrammet, Dataanalys och Business Intelligence, 180 högskolepoäng

Bachelor in Statistics, 180 Credits

Programme code:	SDB1K
Education cycle:	First cycle
Established:	09/05/2000
Approved:	10/06/2021 (ORU 2021/02203)
Valid from:	Autumn semester 2022
Approved by:	Faculty Board of Business, Science and Engineering
School:	Örebro University School of Business

AIMS AND OBJECTIVES

General aims for first cycle education

First-cycle courses and study programmes shall develop:

- the ability of students to make independent and critical assessments
- the ability of students to identify, formulate and solve problems autonomously, and
- the preparedness of students to deal with changes in working life.

In addition to knowledge and skills in their field of study, students shall develop the ability to:

- gather and interpret information at a scholarly level
- stay abreast of the development of knowledge, and
- communicate their knowledge to others, including those who lack specialist knowledge in the field.

(Higher Education Act, Chapter 1, Section 8)

Objectives for the programme

DEGREE OF BACHELOR

Knowledge and understanding

For a Degree of Bachelor the student shall

- demonstrate knowledge and understanding in the main field of study, including knowledge of the disciplinary foundation of the field, knowledge of applicable methodologies in the field, specialised study in some aspect of the field as well as awareness of current research issues.

Competence and skills

For a Degree of Bachelor the student shall

- demonstrate the ability to search for, gather, evaluate and critically interpret the relevant information for a formulated problem and also discuss phenomena, issues and situations critically,
- demonstrate the ability to identify, formulate and solve problems autonomously and to complete tasks within predetermined time frames,
- demonstrate the ability to present and discuss information, problems and solutions in speech and writing and in dialogue with different audiences, and
- demonstrate the skills required to work autonomously in the main field of study.

Judgement and approach

For a Degree of Bachelor the student shall

- demonstrate the ability to make assessments in the main field of study informed by relevant disciplinary, social and ethical issues,
- demonstrate insight into the role of knowledge in society and the responsibility of the individual for how it is used, and
- demonstrate the ability to identify the need for further knowledge and ongoing learning.

(Appendix 2, Higher Education Ordinance)

Local objectives for the programme

On completion of the programme, the student shall

- demonstrate an understanding of the statistician's professional role and responsibility, and
- demonstrate an ability to assist users of statistics and statistical methods in other fields

COURSES WITHIN THE PROGRAMME

- Basic Statistics, 15 credits (statistics, G1N)
- Data Mining and Business Analytics, 15 credits (statistics, G1F)
- Introductory Mathematics for Statisticians, 7.5 credits (Statistics, G1F)
- Statistics, Statistical Theory, Intermediate Course, 15 credits (G1F)
- Statistics, Time Series Analysis and Forecasting, Intermediate Course, 7.5 credits (G1F)
- Statistics, Econometrics, Intermediate Course, 7.5 credits (G1F)
- Statistics, Independent Project, Intermediate Course, 7.5 credits (G1E)
- Statistics, Computer Intensive Methods, Intermediate Course, 7.5 credits (G1F)
- Statistics, Survey Sampling, Intermediate Course, 7.5 credits (G1F)
- Statistics, Statistical Methods, Advanced Course, 7.5 credits (G2F)
- Statistics, Statistical Learning, Advanced Course, 7.5 credits (G2F)
- Statistics, Bachelor's Thesis, Advanced Course, 15 credits (G2E)
- Optional courses from the university course range, total of 60 credits.

GENERAL ORGANISATION OF THE PROGRAMME

The programme comprises 180 credits and leads to a Degree of Bachelor of Science. Students take 120 credits worth of courses with progressively specialised study in statistics, which is the main field of study on the programme. The first semester of the programme is made up of courses in the main field of study, statistics. The first course is Basic Statistics, followed by Data Mining and Business Analytics. For the remainder of the programme, students take 90 credits in the main field of study, statistics, and 60 credits worth of courses of their choice.

The courses in statistics have a clear progression, with a gradual specialisation in terms of both theory and subject knowledge. Thus, knowledge and information obtained in courses taken early on are built upon and expanded in subsequent courses on the programme. The majority of the courses on the programme both entail a broadening of studies and set students up for an increasing degree of autonomy.

During the two semesters of optional courses (60 credits), students are recommended to improve their skills and/or advance their knowledge within important application subjects by taking courses in business administration, economics, informatics, computer science, or mathematics. During at least one of these semesters, students are recommended to particularly focus their choice of courses to the main fields of study business administration, economics, or informatics.

QUALIFICATIONS

Degree of Bachelor

A Degree of Bachelor is awarded after the student has completed the courses required to gain 180 credits, of which at least 90 credits are for progressively specialised study in a main field of study (courses labelled G1N, G1F/G1E and G2F/G2E), where at least 15 credits are for an independent project (degree project) with the label G2E.

ADMISSION REQUIREMENTS

General entry requirements and Mathematics 3b or Mathematics 3c or Mathematics C, Civics 1b or 1a1+1a2 and English 6.

In order to gain admission to courses within the programme, other admission requirements than the above may apply. Such requirements are prescribed in the current course syllabuses.

SELECTION AND GUARANTEED ADMISSION

Grades (60 per cent of the places) and results from the Swedish Scholastic Aptitude Test (40 per cent of the places).

Students admitted to the programme are guaranteed admission to the courses within the programme to the extent and scope that is defined in the programme syllabus. Guaranteed admission applies to no more than 30 credits per semester and is conditional to the student meeting the specific admission requirements.

OTHER PROVISIONS

The language of instruction is Swedish.

Provisions for the individual courses within the programme are set out in the respective course syllabuses. Information on regulations concerning first and second-cycle courses and study programmes (e.g. admission, examination, credit transfer and degrees as well as delegations), can be found at Örebro University's homepage: <https://www.oru.se>.

TRANSITIONAL PROVISIONS

Information

Students who have been accepted to and registered on the programme have the right to complete their studies in accordance with the programme syllabus in force at their admission and at the rate of study that applied at the time of their admission.

Students who have been granted the right to take up their studies following an approved leave from studies have the right to continue their studies in accordance with the programme syllabus in force at the time of their admission.

Provisions concerning the right to examination on courses that have been altered or discontinued are laid down in the respective course syllabus or in a separate decision.