PROGRAMME SYLLABUS
(This is a translation of the Swedish programme syllabus)

Statistikerprogrammet, 180 högskolepoäng
Bachelor in Statistics, 180 Credits

Programme code: SSK1K
Education cycle: First cycle
Established: 5/9/00
Approved: 10/23/15 (Registration number ORU 4.1-03096/2015)
Valid from: Autumn semester 2016
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 a capacity to work as a statistical consultant and advisor to researchers and
  users of statistical methods in other fields.

COURSES WITHIN THE PROGRAMME
Statistics, Basic Statistics, 15 Credits (G1N)
Statistics, Regression Analysis, Basic Course, 7.5 Credits (G1F)
Statistics, Survey Methodology, Basic Course, 7.5 Credits (G1F)
Statistics, Introductory Mathematics for Statisticians, Basic Course, 7.5 Credits (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)
Mathematics, Elementary Algebra, 7.5 Credits (G1N)
Mathematics, Calculus for Statisticians, 7.5 Credits (G1N)
Mathematics, Linear Algebra, 7.5 Credits (G1F)
Computer Science, Database Technology, 7.5 Credits (G1N)
Statistics, Computer intensive methods, 7.5 Credits (G1F)
Statistics, Survey Sampling, Intermediate Course, 7.5 Credits (G1F)
Statistics, Biostatistics, Intermediate Course, 7.5 Credits (G1F)
Statistics, Statistical methods, 7.5 Credits (G2F)
Statistics, Statistical learning, 7.5 Credits (G2F)
Statistics, Bachelor thesis, 15 Credits (G2E)
Optional courses from the university's course range, total of 30 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. In addition, students take 22.5 credits worth of courses in mathematics and 7.5 credits in computer science. The remaining course credits, up to 180 credits, may be selected freely from the university’s course range.

The first semester is spent on statistics studies. The first course is Basic Statistics, followed by the course Introductory Mathematics for Statisticians and either of the courses Regression Analysis or Survey Methodology.

During the second semester, students take the courses Econometrics, Time Series Analysis and Forecasting, and Biostatistics before the semester concludes with an independent project for 7.5 credits.

The third semester consists of courses in mathematics and computer science: Elementary Algebra, Calculus for Statisticians, Linear Algebra and Database Technology. The fourth semester is spent on optional courses.

During the fifth semester, students first take the course Statistical Theory, followed by Computer intensive methods and Survey Sampling. The final semester opens with the courses Statistical methods and Statistical learning. The programme concludes with a paper for 15 credits.

QUALIFICATIONS
Kandidatexamen
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
Standard eligibility requirements and English B, Mathematics C and Social science A (specific entry requirements 4).

or

Standard eligibility requirements and Mathematics 3b / 3c and Social science 1b / 1a1+1a2 (specific entry requirements A4).

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
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: http://www.oru.se.

TRANITIONAL 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.