

#### **Faculty of Social Sciences**

# SIMM32, Social Sciences: Quantitative Methods - Multivariate Analysis, 7.5 credits

Samhällsvetenskap: Kvantitativ metod - multivariat analys, 7,5 högskolepoäng Second Cycle / Avancerad nivå

# Details of approval

The syllabus was approved by Graduate School Board on 2015-11-19 and was last revised on 2025-11-24. The revised syllabus comes into effect 2025-11-24 and is valid from the spring semester 2026.

#### General information

The course is offered as a single subject course in Social Science and is an optional course within the Master of Science in Social Sciences Programmes in Development Studies, Global Studies, and Social Studies of Gender.

Language of instruction: English

Main field of study Specialisation

Human Geography A1N, Second cycle, has only first-cycle course/s as entry

requirements

Social Anthropology A1N, Second cycle, has only first-cycle course/s as entry

requirements

Gender Studies A1N, Second cycle, has only first-cycle course/s as entry

requirements

Sociology of Law A1N, Second cycle, has only first-cycle course/s as entry

requirements

Social Work A1N, Second cycle, has only first-cycle course/s as entry

requirements

Sociology A1N, Second cycle, has only first-cycle course/s as entry

requirements

Education A1N, Second cycle, has only first-cycle course/s as entry

requirements

Development A1N, Second cycle, has only first-cycle course/s as entry

Studies requirements

Political Science A1N, Second cycle, has only first-cycle course/s as entry

requirements

# Learning outcomes

On completion of the course, the student shall:

# Knowledge and understanding

• demonstrate knowledge of the multivariate statistical techniques most commonly used within the social sciences;

• demonstrate an understanding of the kind of research questions that each technique can be used to address;

### Competence and skills

 exemplify skills in performing an analysis using the different techniques covered in the course, including but not limited to multiple regression analysis, logistic regression and factor analysis;

### Judgement and approach

- be able to independently and critically reflect on the relationship between complex research questions and statistical techniques
- be able to independently and critically reflect on, and make informed decisions with regard to, core methodological issues the context of the application of the statistical techniques taught in the course

#### Course content

This course is aimed towards students who have some prior knowledge of quantitative methods and wish to further develop their understanding of, and ability to independently perform, statistical analysis of social science research questions. Some of the multivariate statistical techniques most commonly used within the social sciences are presented and practiced. The focus lies on the relationship between complex research questions and different multivariate statistical techniques.

# Course design

Teaching includes lectures and teacher-assisted exercises in practical statistical analysis (computer lab work and reports). Participation in the labs is mandatory. Failure to participate in the labs will be compensated for with replacement assignments during the course.

#### Assessment

Assessment is based on a written assignment (7,5 credits), where the student will apply one or more methods learned in the course to a substantive research question.

The course includes opportunities for assessment at a first examination, a re-sit close to the first examination and a second re-sit for courses that have ended during that school year. Two further re-examinations on the same course content are offered within a year of the end of the course. After this, further re- examination opportunities are offered but in accordance with the current course syllabus.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

#### Grades

Grading scale includes the grades: U=Fail, E=Sufficient, D=Satisfactory, C=Good, B=Very Good, A=Excellent

The grade for a non-passing result is Fail. The student's performance is assessed with reference to the learning outcomes of the course. For the grade of E the student must show acceptable results. For the grade of D the student must show satisfactory results. For the grade of C the student must show good results. For the grade of B the student must show very good results. For the grade of A the student must show excellent results. For the grade of Fail the student must have shown unacceptable results.

The course grade is based on the written assignment. To receive a passing grade on the course, the student must have been awarded at least E on the assessment for which the grading scale A–E+Fail applies. The student must also have participated in all mandatory components.

At the start of the course, students are informed about the learning outcomes stated in the syllabus and about the grading scale and how it is applied on the course.

# Entry requirements

To be eligible for the course the student must have 150 credits including a graded thesis for the degree of Bachelor, or a completed major, in the Social Sciences, or another equivalent subject. In addition, students must have a minimum of 5 credits, or the equivalence, in quantitative methods at the first cycle level.

Oral and written proficiency in English equivalent to English 6/B (advanced) from Swedish upper secondary school is a requirement. International qualifications will be assessed in accordance with national guidelines.