



**LUND**  
UNIVERSITY

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 2017-11-21. The revised syllabus applies from 2018-01-15, spring semester 2018.

### **General Information**

The course is offered as a single subject course in Social Sciences 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

<i>Main field of studies</i>	<i>Depth of study relative to the degree requirements</i>
Political Science	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
Education	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
Human Geography	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 Anthropology	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

## Learning outcomes

On completion of the course, students shall:

### Knowledge and understanding

- knowledge of the multivariate statistical techniques most commonly used within the social sciences
- an understanding of the kind of research questions that each technique can be used to address
- a deeper understanding of at least one of the statistical techniques covered in the course

### Competence and skills

- basic 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
- demonstrate advanced skills in performing an analysis using (at least) one of the statistical techniques covered in the course

### Judgement and approach

- an ability to independently and critically reflect on the relationship between complex research questions and statistical techniques
- an ability 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

The aim of this course is for students with some prior knowledge of quantitative methods 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 is on the relationship between complex research questions and different multivariate statistical techniques. Students will have the opportunity to deepen their knowledge in one or two methods of their choice.

## Course design

Teaching includes lectures, teacher assisted exercises in practical statistical analysis (computer lab work) and individual supervision/guidance.

Attendance is not compulsory but students are highly recommended to participate as much as possible.

## Assessment

Each statistical technique is examined separately through "lab-reports". The assignments on which the lab-reports are based are introduced in conjunction with respective lecture and designed as to be possible to finish within 1-2 days. Towards the end of the course and after having finished the lab-reports, the student chooses one method on which to focus and learn more about through the writing of a final paper.

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.

*Subcourses that are part of this course can be found in an appendix at the end of this document.*

## Grades

Marking scale: Fail, E, D, C, B, A.

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 overall course grade is based on the following balance: lab based reports (5 credits) and the final paper (2,5 credits). The grade for the entire course consists of the average grade of all assessed assignments (A = 5, B = 4, C = 3, D = 2, E = 1) multiplied by the number of credits awarded for each component. For a grade of Pass on the entire course, the student must have been awarded at least E on all assessments for which the grading scale A–E+Fail applies.

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.

A good command of English language both spoken and written, equivalent to English 6/B (advanced) proficiency in the Swedish secondary system, is required. Equivalence assessments will be made according to national guidelines.



## Subcourses in SIMM32, Social Sciences: Quantitative Methods - Multivariate Analysis

Applies from V18

- 1801 Lab work, 5,0 hp  
Grading scale: Fail, E, D, C, B, A
- 1802 Final course paper, 2,5 hp  
Grading scale: Fail, E, D, C, B, A

Applies from V16

- 1501 Quantitative Methods - Multivariate Analysis, 7,5 hp  
Grading scale: Fail, E, D, C, B, A