

## SGR004F Quantitative Methods – Multivariate Analysis, 7.5 credits, third cycle

The course was adopted by the Board of the Lund University Faculty of Social Sciences 22 November 2018 and the syllabus was approved by the Research Studies Council 30 January 2019.

The syllabus is valid from spring semester 2019.

### A. General information

The course is offered by the Faculty of Social Sciences as a third-cycle methods course in social sciences.

The language of instruction is English.

### B. 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

### C. 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.

#### **D. Course design**

Teaching includes lectures teacher assisted exercises in practical statistical analysis (computer lab work). Attendance is not compulsory but students are highly recommended to participate in as much as possible.

#### **E. Assessment**

Each statistical technique is examined separately in "lab reports". The concepts 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.

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.

#### **F. Grades**

The grading scale consists of Pass and Fail. A grade of Pass requires that the doctoral student fulfils the stated learning outcomes for the course.

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.

#### **G. Entry requirements**

To be admitted to the course, students must have been admitted to third cycle studies. Doctoral students from the Faculty of Social Sciences at Lund University have precedence if a selection process for applicants is required.