

# Syllabus

for course at research level

**Statistical data modelling**  
**Statistisk datamodellering**

**2.5 Higher Education**  
**Credits**  
**2.5 ECTS credits**

<b>Course code:</b>	PH016F1
<b>Valid from:</b>	Spring 2022
<b>Department</b>	Department of Public Health Sciences

## Prerequisites and special admittance requirements

### Learning outcomes

In order to receive a passing grade on the course, students are expected to be able to:

- Investigate and describe associations between multiple variables.
- Argue around the development of statistical models grounded in scientific research questions.
- Apply advanced statistical methods of analysis.
- Interpret results from analysis of associations between multiple variables.
- Discuss how the course content can be applied on the student's own field of research.

### Content

The purpose of the course is to give the student a practical introduction to advanced statistical analysis and modelling. The course gives an overview of statistical concepts, methods, and models used for the analysis of associations between multiple variables. After the course, the student will have a basic understanding of, for example, confounding, mediation, and interaction, and will be able to perform analyses of associations using multiple variables.

### Mandatory exams

Attendance at lectures and seminars is not mandatory.

### Forms of examination

- a) The course is examined through an individual written assignment.

The written assignment will be graded on a two-point grading scale (G=Pass, U=Fail).

The examination will be in English.

If the student has a certificate from Stockholm University that recommends special pedagogical support, the examiner has the right to offer the student alternative forms of examination.

- b) The course grade will be given as follows:

G = Pass

U = Fail

- c) The grading criteria will be presented to the students in writing when the course begins, at the latest.

d) In order to receive a passing grade in the course, the student must receive pass grade (G) on the written assignment.

e) Two examinations are offered each time course is taught. For terms when the course is not taught, one examination is offered.

Students who receive a failing grade two consecutive times from the same examiner have the right to request a different examiner to grade the examination. This request should be made to the Director of Studies.

Individual assignments that received failing U grades can receive passing G grades with submission of supplementary assignment, if the student is close to passing.

### **Form of instruction**

The teaching will be based on lectures and seminars.

The course will be taught in English.

See the course description for more detailed information. The course description will be available at least one month before the course starts.

The current course literature will be published on the department's website, [www.su.se/publichealth](http://www.su.se/publichealth), before the course begins.

This course is given in collaboration with the “Master’s programme in Public Health Sciences: Societal and Individual Perspectives”. Joint lectures with master students are therefore applied.