

# Syllabus

for course at advanced level

**Statistical Methods**  
**Statistiska metoder**

**7.5 Higher Education**  
**Credits**  
**7.5 ECTS credits**

<b>Course code:</b>	ST741A
<b>Valid from:</b>	Autumn 2014
<b>Date of approval:</b>	2014-02-19
<b>Department</b>	Department of Statistics
<b>Main field:</b>	Statistics
<b>Specialisation:</b>	A1F - Second cycle, has second-cycle course/s as entry requirements

## Decision

This syllabus was approved by the Board of the Department of Statistics on February 19, 2014.

## Prerequisites and special admittance requirements

97,5 ECTS credits in Statistics, including Statistical Theory of Science, advanced level, 7,5 ECTS credits, or equivalent. Swedish upper secondary school course English 6 or equivalent.

## Course structure

Examination code	Name	Higher Education Credits
11SI	Compulsory Exercise in Statistical Methods	7.5

## Course content

The course consists of one course module:

### 1. Statistical Methods

The course takes as a starting-point some real presentations of problems through which a large number of models and methods are introduced and which respective advantages and disadvantages are discussed. A key objective for the course is to provide ideas for the choice of subject for the Degree project in Statistics and to offer good examples of statistical methods for scientific writing.

The course also provides deeper studies of evaluation of models and creating predictions with the use of models. An important element of the course is the students' independent work on a number of cases.

## Learning outcomes

To pass the course the student should be able to:

- choose appropriate statistical models and methods for different problems and argue for the choices made
- perform analyses of, and evaluate, the chosen models

## Education

The teaching consists of lectures and seminars.

## Forms of examination

- a. Examination will be done by assessing the learning outcomes. Examination will be in the form of a written report of a compulsory exercise.
- b. Grading is done according to a seven-point scale related to the specified learning outcomes:  
A = Excellent  
B = Very Good  
C = Good  
D = Satisfactory  
E = Adequate  
Fx = Inadequate  
F = Totally Inadequate
- c. The assessment criteria for the course will be distributed at the beginning of the course.
- d. In order to pass the course, the grade E or higher is required on the course unit.
- e. Students who have received the grade Fx or F on an examination are entitled to at least four additional examinations to achieve the lowest grade E as long as the course is given.  
If a student has received the grade Fx on the written reports but is close to passing the assignment, there may be a possibility to hand in an additional assignment. The assignment should be handed in within the given time frame and after the examiner having advised on the need to revise the assignment.  
Students who have received the grade E on an examination may not retake this examination in order to achieve a higher grade.  
Students who have received the grade Fx or F on an examination on two occasions by the same examiner have the right to request that a different examiner be appointed to set the grade of the examination. The request must be in writing and sent to the head of the department.  
The examination denotes all compulsory elements of the course.  
Every time the course is given, there should be two examination opportunities during the current semester.

### **Interim**

When the course syllabus is withdrawn, the student has the right to request examination once per term during a period of three terms in accordance with this syllabus. The request must be in writing and sent to the head of department.

### **Limitations**

This course may not be included in a degree together with the course Statistical Methods (ST728A)15 ECTS credits, or equivalent.

### **Required reading**

The course literature is described in an appendix to the syllabus.