Syllabus
for course at advanced level

Statistical Methods
Statistiska metoder

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

7.5 Higher Education Credits
7.5 ECTS credits

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

<table>
<thead>
<tr>
<th>Examination code</th>
<th>Name</th>
<th>Higher Education Credits</th>
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<tbody>
<tr>
<td>11SI</td>
<td>Compulsory Exercise in Statistical Methods</td>
<td>7.5</td>
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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

This is a translation of the Swedish original
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.