

Syllabus

for course at advanced level

Selected Topics in Statistical Theory and Methods

Valda ämnen i statistisk teori och metodik

7.5 Higher Education

Credits

7.5 ECTS credits

Course code:	MT7032
Valid from:	Spring 2013
Date of approval:	2013-01-14
Department	Department of Mathematics (incl. Math. Statistics)
Main field:	Mathematical Statistics
Specialisation:	A1N - Second cycle, has only first-cycle course/s as entry requirements

Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University on 27 September 2006.

Prerequisites and special admittance requirements

Course structure

Examination code	Name	Higher Education Credits
HELA	Selected Topics in Statistical Theory and Methods	7.5

Course content

The course treats measure and integration theory, Lebesgue's theorems on monotone and bounded convergence, Radon-Nikodym's theorem, Fubini's theorem, L_p -spaces, Arzela-Ascoli's theorem.

Learning outcomes

It is expected that the student after taking the course will be able to:

- account for and prove basic theorems in measure theory, integration theory and function theory

Education

The education consists of lectures and exercises.

Forms of examination

a. Examination for the course is in the following manner: measurement of knowledge takes place through written or oral examination

b. Grading is carried out according to a 7-point scale related to learning objectives:

- A = Excellent
- B = Very Good
- C = Good
- D = Satisfactory
- E = Sufficient
- Fx = Fail
- F = Fail

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term “examination” here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach a pass grade on two occasions have the right to request that a different teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board.

Interim

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board.

Limitations

The course may not be included in a degree together with the courses ”Integration theory” (MA4130), ”Mathematical analysis, specialized course” (MA4290), or the equivalents.

Misc

The course is a component of the master programs in mathematics and applied mathematics, and it can also be taken as an individual course.

Required reading

Course literature is decided by the departmental board and is described in an appendix to the syllabus.