SF0003 Introductory Course in Mathematics 1.5 credits

Introduktion i matematik

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for SF0003 valid from Spring 2019

Grading scale

P, F

Education cycle

Pre-university level

Specific prerequisites

Basic requirements.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

After the course the student should be able to

- use concepts. theorems and methods to solve and present solutions to problems within the parts described by the course content,
- read and comprehend mathematical text.

Course contents

Common mathematical notation; Natural numbers, integers, rational numbers, real numbers and complex numbers; Manipulation of inequalities: addition, multiplication, absolute value, monotonous maps. Cartesian coordinates, straight lines and quadratic curves. Graphs of functions. Elementary properties of functions. Polynomial division and the factor theorem. Trigonometry and trigonometric functions.

Mathematical induction and polynomials.

Course literature

Announced no later than 4 weeks before the start of the course on the course web page

Examination

- ANN1 - Introduction, 1.5 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.