



# ML0001 Introduction to Mathematics 1.5 fup

Introduktionskurs i matematik

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

## Establishment

Course syllabus for ML0001 valid from Autumn 2014

## Grading scale

P, F

## Education cycle

Pre-university level

## Specific prerequisites

Completed upper secondary education including documented proficiency in Swedish corresponding to Swedish B and English corresponding to English A and Mathematics 3c, Physics 2 and Chemistry 1, or the equivalent.

## Language of instruction

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

## Intended learning outcomes

On completion of the course, the participants should be able to:

- Simplify algebraic expressions
- Decide domains and make calculations with expression that contains exponentiations, logarithms, rational and trigonometric functions
- Solve quadratic equations
- Solve logarithmic and trigonometric equations

## Course contents

- Algebraic expressions
- Linear equations
- Completing the square
- Quadratic equations
- Root equations
- Powers
- Roots
- Exponential equations
- Logarithms
- Logarithmic equations
- Trigonometric functions
- Basic trigonometric equations

## Course literature

Kompendium som distribueras vid kursstart

## Examination

- RED1 - Presentation, 1.5 fup, 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.

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

The course can not be used in the exam

## 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.