



# SF2703 Algebra, Basic Course

## 6.0 credits

Algebra, grundkurs

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 SF2703 valid from Autumn 2008

### Grading scale

A, B, C, D, E, FX, F

### Education cycle

Second cycle

### Main field of study

Mathematics

### Language of instruction

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

### Intended learning outcomes

The main purpose of the course is to train the student in abstract reasoning and to familiarize her/him with basic algebraic structures. As such the course prepares the student for further studies and research within mathematics and physics.

## Course contents

Groups, permutations, homomorphisms, group action, rings, ideals, modules, fields and field extensions.

## Specific prerequisites

None

## Course literature

Dummit & Foote: Abstract algebra.

## Examination

- TEN1 - Examination, 6.0 credits, grading scale: A, B, C, D, E, FX, 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.

## Other requirements for final grade

One final (TEN1; 6 hp).

## 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.