



# AF1601 Soil Mechanics and Foundation Engineering 7.5 credits

**Geoteknik med grundläggning**

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 AF1601 valid from Autumn 2007

## **Grading scale**

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

## **Education cycle**

First cycle

## **Main field of study**

Technology

## **Specific prerequisites**

Geology and Geotechnical Engineering, the course Buildings and Civil Engineering Structures is recommended.

## 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 students will have good knowledge in theoretical soil mechanics and have good knowledge in geotechnical design.

## Course contents

This course encloses

- Basic Soil Mechanics
- Laboratory methods
- Design in soil mechanics
- Slope stability
- Foundation engineering

## Course literature

Cernica, J. N., 1995, Soil Mechanics

## Examination

- TEN1 - Examination, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- ÖVN1 - Exercises, 4.5 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

Written examination (TEN1; 3 cr)

Exercises and laboratory work (ÖVN1; 4,5 cr)

## 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.