



# FAF3607 Graduate course in Geotechnics 7.5 credits

Doktorandkurs i Geoteknik

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

## Establishment

Course syllabus for FAF3607 valid from Autumn 2019

## Grading scale

P, F

## Education cycle

Third cycle

## Specific prerequisites

Master of Science in Engineering or similar with an undergraduate course in geotechnical and foundation engineering

## Language of instruction

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

## Intended learning outcomes

The course shall give you an overall picture and deeper knowledge of different ground improvement methods. The course consider dimensioning principles, design, execution

and quality control. After the course you shall be able to establish proposals for ground improvement for different conditions.

After the course you shall be able, within a limited time, to take a subject, find the most relevant and current literature and present it in a well written report. The written reports in the course shall be used in graduate studies in geotechnical engineering.

## Course contents

The course is a seminar course where you as a participant contribute with the main content. Each participant contribute with one ground improvement method. The main work take place individually between the seminars. Each participant writes a report of 30-50 pages. The reports are put together and published as course literature. The reports consider theory/praxis, execution methods/equipments, advantages/disadvantages/economy, quality assessment and quality control. The examination consists of the report and written reviews of two other reports. The works are presented orally at a final seminar.

## Examination

- PRO1 - Project work, 7.5 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.

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

The course examination is made through:

- Active participation at the seminars
- Writing a report and oral presentation of a ground improvement method
- Written review of two others reports, methods

## 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.