



# HS1732 Surveying 7.5 credits

## Fältnätning

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

## Establishment

Course syllabus for HS1732 valid from Autumn 2017

## Grading scale

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

## Education cycle

First cycle

## Main field of study

The Built Environment, Technology

## Specific prerequisites

Students in year 2 of the Higher Education Diploma programme in Construction Management

## Language of instruction

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

## Intended learning outcomes

Outcomes to receive an E grade.

Upon completion of the course, the student shall have a good grasp of the following:

Calculate plane coordinates for new points using these surveying techniques:

- Polar measurements
- Rectangular measurements
- Tying in
- Intersection

Calculate elevation coordinates for new points using these surveying techniques:

- Levelling
- Trigonometric levelling

Set up and take measurements with theodolites and levelling instruments

Keep and calculate measurement protocols

Understand the structure and function of the GPS system

## Course contents

- Reference systems in planes and elevation
- Polar staking out methods
- Polar and rectangular measurements
- Free station
- Traverse
- Levelling, trigonometric levelling
- GPS

## Course literature

Reading materials will be announced at the start of the course.

## Examination

- ÖVN1 - Exercises, 3.0 credits, grading scale: P, F
- TEN1 - Examination, 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.

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

## Other requirements for final grade

Passing grade on examination (TEN1, 4.5 credits), grading scale A-F

Passing grade on field exercises (ÖVN1, 3.0 credits), grading scale P/F

Overall course grade is based on grading scale A-F.

Mandatory attendance at field exercises and the final presentation.

## 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.