



HS1721 Building Technology 7.5 credits

Husbyggnad

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

Establishment

Course syllabus for HS1721 valid from Autumn 2011

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 1 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

Upon completion of the course, students will be able to:

- Have general geology knowledge
- Have general geotechnics knowledge
- Recognize building styles dating from the 18th century and on
- Be able to describe building construction techniques for small and medium-sized buildings
- Be able to describe connections between building elements in a building construction
- Be able to draw structural details in CAD

Course contents

- Lectures and exercises in drawing and creating construction drawings in CAD
- Lectures on geology and geotechnics
- Lecture on architecture
Lecture on construction materials
Materials discussed: Concrete, lightweight concrete, brick, stone, ceramics, wood, steel, thermal isolation, glass, plastic, and boards
- Lecture on foundation work
- Lecture on building construction techniques Building types, foundations, structural systems, bearing walls, columns, floor constructions, roofing, non-structural elements, facades
- Lectures on construction techniques for connections
- opportunities for assignments

Course literature

P. G. Burström, **Byggnadsmaterial**, Studentlitteratur (i schemat: Byma)

Cecilia Björk, Laila Reppen, **Så byggdes staden**, AB Svensk byggtjänst (i schemat:SBS)

Samuel A. Berg_, Byggteknik byt 3 Grundläggning

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Referenslitteratur:

Kenneth Sandin, _Praktisk husbyggnadsteknik

_Cecilia Björk, Laila Reppen, **Så byggdes Husen**, AB Svensk byggtjänst

Isoverboken

Examination

- ÖVN1 - Exercises, 3.5 credits, grading scale: P, F
- TEN1 - Examination, 4.0 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.

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, 4.0 credits), grading scale A- F, and on assignments, (ÖVN1, 3.5 credits), grading scale P/F

Overall course grade is based on grading scale A-F

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.