



# AF1021 Building Design and Construction Project 15.0 credits

Projekt för huskonstruktörer

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 AF1021 valid from Spring 2012

## Grading scale

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

## Education cycle

First cycle

## Main field of study

Built Environment, Technology

## Language of instruction

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

## Intended learning outcomes

After the course is completed the student should:

- have a fundamental understanding of the technical functions of a building concerning both its components and the system as a whole.
- have some skills in the various fields of design of a building.
- have insight into the role of the different professions.

## Course contents

Functional requirements for buildings. Planning. Architectural gestaltung, Foundations and structure. The choice and analysis of structural elements. Selection of materials: Technology, environment, durability, aesthetics, economy. Building components: Foundation, floors, walls, sanitary, electricity. Sources of information for building materials and building services equipment, codes and test methods, grades of quality. Revision, documents, cost calculations.

## Specific prerequisites

Buildings and Civil Engineering Structures

Building Materials, Basic Course

Building Physics

Structural Mechanics, Basic Course

Structural Engineering, Basic Course

## Examination

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.

Exercises (ÖVN1; 6 cr)

Project (PRO1; 9 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.