



Course syllabus

Faculty Board of Science and Engineering
School of Engineering

1BY008 Byggt teknik 1, 7,5 högskolepoäng
Building Technology 1, 7.5 credits

Main field of study

Civil Engineering

Subject Group

Building Technology

Level of classification

First Level

Progression

GIN

Date of Ratification

Approved by Organisational Committee 2009-12-15

The course syllabus is valid from autumn semester 2010

Prerequisites

General requirements for university studies and Mathematics C. (Specific requirements 3 with the exception of Science studies B and Civics A)

Expected learning outcomes

After completing the course the student is expected to have acquired:

- knowledge of building technology constructions knowledge of certain building materials
- knowledge of construction moisture and heat functionality.
- the ability to perform detailed building technology drawings

Content

The course comprises the following elements:

- Building physics: Heating, energy balance, U values, heat conduction. Moisture, moisture technology concepts, moisture transportation, moisture sources,

critical moisture conditions, moisture measuring.

- Material science: Building materials and their properties.
- Elements of building construction such as foundations, framework, additional framework components, facing, fittings and equipment.
- Drawing techniques: Basic drawing techniques.

- Laboratory work in the areas of concrete, wood and moisture
- Study visits and mentor company tasks. Study visits in accordance with teacher instructions. Programme students perform pre-determined mentor company

assignments, which are presented in writing.

Independent-course students make the corresponding written presentations of course elements and/or study visits in accordance with teacher instructions.

Type of Instruction

The teaching consists of lectures, laboratory work, exercises and study visits. Certain elements are compulsory. The extent of the compulsory parts appears from the schedule.

Examination

The course is assessed with the grades U,3,4 or 5.

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

The assessment of student performances generally takes place during certain examination periods and is normally written.

The assessment may also be based on submitted presentations of laboratory work and other assignments.

Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

Credit Overlap

BYA908

Other

On request, a Swedish University course certificate will be awarded upon successful completion of the course.

Upon request, a Swedish University degree will be issued upon successful completion of the full demands for that degree.

Required Reading and Additional Study Material

Required reading

Bodin, Hidemark m fl Arkitektens Handbok Addera förlag 2008 253 sid

Burström, Per Gunnar Byggnadsmaterial Studentlitteratur 2007 562 sid

Hemgren&Wannfors, *Husets ABC*. Ca 384 sidor.

Hamrin, *Byggnadsritning - ritsätt och ritregler*. Ca 72 sidor.

Avdelningens kompendier. Ca 100 sidor.