



A42T2A Architectural Technology 4:2 3.0 credits

Arkitekturteknik 4:2

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

Establishment

Course syllabus for A42T2A valid from Autumn 2008

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Architecture

Specific prerequisites

Bachelor's degree (level), Architecture

Language of instruction

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

Intended learning outcomes

Technology

Technology is central in architecture. ‘Technical issues’ – how a building stands up, how it keeps heat in and lets air out, how it repels or takes in wind and weather – constitute opportunities rather than limitations over design – both in terms of form and organisation. But knowing how to use technical knowledge as an architect is sometimes hard. This course aims to support students in developing strategies for using specialist technical knowledge in their design process.

This course asks you to consider how issues to do with structure, environmental engineering design, production process and cultures of collaboration inform architectural projects – either from the very beginning or at the very end. The aim of the course is not technical in the narrow sense – we are not interested in the details of the building for their own sake. Rather the course is design to help develop reflective thinking which couples together an understanding of consultant role, production process, structure and climate.

Course contents

The course consists of 5 lecture presentations giving a definition of architectural technology and outlining four areas within it. Each student attends one seminar discussing a case study example. All students attend a final presentation seminar. A written assignment is given during the course for final assessment.

Examination

- MOM1 - Moment, 3.0 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.

Other requirements for final grade

Students who have completed this unit should be able to

- A. • select, from their previous knowledge and from lectures and presentations given within the course, a key area within architectural technology that is relevant in a particular case study. This selection should be made according to the broad divisions between five areas of architectural technology taught throughout the syllabus and reviewed in this course.
- outline the most important parameters that are controlled by this area of architectural technology and
 - show the operative potential for architectural design of this knowledge in the context of the case study.

B.

- present this argument clearly through a verbal/digital presentation with diagrams and images

C.

- select, from their previous knowledge and from lectures and presentations given within the course, a key area within architectural technology that is relevant to one of their own projects. This selection should be made according to the broad divisions between five areas of architectural technology taught throughout the syllabus and reviewed in this course.
- outline the most important parameters that are controlled by this area of architectural technology and
- show the operative potential for architectural design of this knowledge in the context of their own project.

D.

- present this argument clearly through a written report presentation with diagrams and images

To obtain a pass students must have attended 80% of all lectures and seminar presentations within their group, and have satisfied the pass level requirement for the final written hand-in.

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.