



AG2806 Environmental Aspects of the Built Environment 7.5 credits

Bebyggelsens miljöpåverkan

Course syllabus for AG2806 valid from Autumn 15

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

Grading scale: A, B, C, D, E, FX, F

Education cycle: Second cycle

Main field of study: Built Environment, Environmental Engineering

Intended learning outcomes

The overall aim of the course is to give students understanding about the interplay between humans, buildings and the surrounding environment as well as strategies for reducing the environmental impacts from buildings.

After completing the course, you should be able to:

- Describe the potential environmental and health impacts caused by different stages in a building's life span.
- Be able to analytically discuss environmental hotspots regarding the built environment depending on local contexts and building types.
- Suggest relevant planning strategies to reduce the environmental impact both from new building developments and improvements of the existing building stock.
- Suggest relevant types of evaluation and assessment tools for decision contexts related to planning and management of buildings.
- Account for current national strategies to reduce the environmental impact of the built environment.

Course main content

The course includes lectures, labs and project assignments followed up by seminars.

Lectures cover:

- the impact of buildings on human health, environment and natural resources
- environmental management strategies in the building and property sector and their relation to city planning
- tools/methods for evaluating and assessing the environmental impact of buildings
- examples of "green building"

Labs and project assignments include using a tool for environmental building assessment as well as analysing strategies for environmental impact reduction in practical cases.

Language of instruction

Language of instruction is specified in the course offering information in the course and programme directory.

Eligibility

A Bachelor's degree (or equivalent) in architecture or landscape architecture, civil engineering in the built environment or equivalent, urban and regional planning, social or natural sciences including courses corresponding to a minimum of 30 ECTS credits in the field of urban, transport or regional planning, or environmental sciences.

Knowledge of basic environmental problems and their causes, corresponding a basic course in the subject, e.g AE1101 Natural Resources or Theory or equivalent.

In addition documented proficiency in English B/English 6 or equivalent (TOEFL, IELTS e.g).

Independent students who lack formal eligibility but want to refer to for instance work experience, may apply for so called real competence (reell kompetens). Please contact KTH student advisory service (KTH Central studievägledning) or admissions office (KTH antagning)

Literature

Skall bestämmas. Artiklar inom "green building".

Examination

- LAB1 - Laboratory Work, 1.0 credits, grading scale: P, F
- PRO1 - Project Assignment, 4.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 2.5 credits, grading scale: A, B, C, D, E, FX, F

Requirements for final grade

Written exam (TEN1; 2,5 cr),

Project assignment (PRO1; 4.0 cr),

Computer lab (LAB1; 1,0 cr).

Final grade is a weighted average of the written exam and the project. "Pass" grade on the lab is required to receive a final grade.