



AM203U Resource-efficient construction 7.5 credits

Resurseffektivt byggande

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 AM203U valid from Autumn 2016

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Built Environment

Language of instruction

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

Intended learning outcomes

Upon successful completion of the course the student will be able to:

Attain an overview of, analyse and assess the construction sector's use of resources in a holistic perspective, in urban terms, at a construction and components level and discuss the advantages and disadvantages of specific alternatives.

Provide insightful utilisation of others' experience and skills in a constructive dialogue in the design of optimised solutions.

Discuss and manage environmental, financial, ethical, social and technical aspects in the planning and choice of technology.

Have insight into classification and certification system in the sector and BIM

Course contents

The course is part of the Masters programme Design and Construction in the City. Its purpose is to provide students with an overview of opportunities and challenges in the management of resources and sustainability in construction and provide insight into the sector from various perspectives:

- Technical, financial and architectonic perspective
- With regard to environmental, ethical and social perspectives
- With regard to environmental, ethical and social aspects
- In operation and production

By providing students with new perspectives, inspiring examples and assignments that can be resolved through cooperation and communication, this will engender an increased skill in producing a constructive, interdisciplinary dialogue that may lead to new, optimised and potentially innovative strategies in sustainable resources management in construction in the city.

The course activities are performed individually and in groups and include submissions of various character, as well as lectures, workshops and/or study trips. As it is expected that the students will have a background in various disciplines, the course will focus on giving the students the opportunity to learn from one another and test each other's area of discipline; not only to practice and argue for what they are already familiar with.

Specific prerequisites

Course literature

Students are expected to locate literature and review literature within the given problem area. The course is in Swedish, but some of the course literature may be in English.

Examination

- PRO1 - Group project, 5.0 credits, grading scale: P, F
- UPP1 - Individual assignment 1, 0.5 credits, grading scale: P, F
- UPP2 - Individual assignment 2, 2.0 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.

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.