



AE2001 Project Environmental Engineering 15.0 credits

Projekt i miljöteknik

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

Establishment

Course syllabus for AE2001 valid from Autumn 2010

Grading scale

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

Education cycle

Second cycle

Main field of study

Specific prerequisites

AE2501 Environmental Impact Assessment, AE2101 Environmental Dynamics Chemical Processes or AE2201 Environmental Dynamics Physical Processes, AE2301 Water and Waste Handling or AE2503 Environmental Data, AE2104 Environmental Measuring and Monitoring.

Language of instruction

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

Intended learning outcomes

The objective of the course is to apply acquired knowledge in a problem-based project. The course provides the students with tools and experience needed to be able to carry out their Master thesis project.

After completion of the course the students should be able to:

- Identify a research problem and questions,
- Collect relevant information,
- Apply their own experience and the acquired knowledge from previous courses,
- Analyse and discuss their data,
- Find solutions to the research problem and make conclusions.

Course contents

Disposition

The course is given in collaboration with the course AG2145 Project Sustainable Infrastructure. The students in these two courses work jointly in interdisciplinary teams focusing on a problem-based project.

Each of the teams:

- Identifies a specific task which contributes to the overall project
- Collect relevant information that is needed to analyse the identified problems and possible solutions
- Prepares a solution to the problems that were identified.

In parallel with the project work, seminars with invited lecturers will be offered on specific themes related to the project. A three days excursion will be arranged in order to illustrate the Swedish experience of problem identification and solution of the chosen problem.

Each student shall in the first period prepare an individual assignment related to the chosen focus. At the end of the second period each team should hand in a jointly written team report. In addition, each student should make a brief individual assessment of the team report.

Examination

- INL1 - Project, 8.0 credits, grading scale: A, B, C, D, E, FX, F
- FÄL1 - Excursion, 3.0 credits, grading scale: P, F
- TEN2 - Examination, 4.0 credits, grading scale: A, B, C, D, E, FX, 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.

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.