



# AL1106 Environmental Technology and Sustainable Production

## 6.0 credits

Miljöteknik och hållbar produktion

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 AL1106 valid from Autumn 2017

### Grading scale

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

### Education cycle

First cycle

### Main field of study

Technology

### Language of instruction

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

## Intended learning outcomes

- Describe and use the concept sustainable development based on different models, perspectives and definitions.
- Describe and explain basic global and national environmental problems and environmental goals.
- Describe and identify safety aspects and risks for the operation of specific technical production systems
- Be familiar with laws and regulations in the environmental arena
- Be able to define and explain fundamental concepts in environmental technology from an industrial perspective in connection to water treatment, waste management and flue gas treatment
- Describe, compare and analyse technical solutions in production systems based on environmental impact and sustainability

## Course contents

The general aim of the course is to communicate knowledge of how technical production systems can be analysed, evaluated and improved based on an environment and sustainability perspective.

## Disposition

The general aim of the course is to communicate knowledge of how technical production systems can be analysed, evaluated and improved based on an environment and sustainability perspective.

The course is organised around a larger project work, where lectures and seminars should give input to this work as well as be a support for studies of literature in the area.

## Specific prerequisites

## Course literature

Meddelas vid kursstart

Vetenskapliga artiklar som är tillgängliga på kurshemsidan

## Examination

- PRO1 - Project, 3.0 credits, grading scale: P, F

- SEM1 - Seminars, 1.0 credits, grading scale: P, F
- TEN1 - Written examination, 2.0 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.

The course is assessed through a larger project work (report and presentation) (PRO 1), participation in seminars and study visits (SEM 1) as well as a written examination (TEN 1).

- PRO1 – Project assignment, 3.0 credits, grading scale: A-F P, F
- SEM1- Seminars, 1.0 credits, grading scale: P, F
- TEN1- Examination, 2.0 credits in grading scale A, B, C, D, E, FX, F

## 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.