# MJ2663 Environmental Management 6.0 credits

## Miljömanagement

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 MJ2663 valid from Spring 2012

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Chemistry and Chemical Engineering

## Language of instruction

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

## Intended learning outcomes

The overall aim of the course is to give an introduction to how companies and organizations deal with environmental and sustainability matters. The course reflects different strategies, tools and accounting systems being used in the current development process and the driving forces behind them. The course discusses both process and product development in different companies related to sustainable development.

After concluding this course the student should be able to:

- Describe and explain motivations and driving forces behind the development of EMS, and process and product development in companies and organizations.
- Describe and explain the processes for certification, registration and maintenance of an EMS according to ISO 14001 and EMAS.
- Describe and explain the most significant tools in the environmental and sustainability monitoring and planning in companies and organizations. Corporate Social Responsibility, Codes of Conduct, Environmental- and Sustainability reporting, Climate Indexes, and how sustainability and financial performance can be integrated in the frameworks of GRI Sustainability Reporting and Dow Jones Sustainability Index.
- In a written case study describe, explain and analyze the environmental- and sustainability performance of one company and critically review the goals achieved.

## Course contents

Strategies, motivations and driving forces to implement and develope environmental management systems in companies and organisations. Current EMS and Standards as ISO 14001 and EMAS, GRI Sustainability Reporting and Dow Jones Sustainability Index, and tools like Corporate Social Responsibility, Codes of Conduct, Environmental- and Sustainability reporting, Climate Indexes.

## Specific prerequisites

At least 120 academic credits (ECTS) in a program of engineering or natural science or the course MJ1500 or MJ1502 or corresponding knowledge. Ddocumented profieciency in english B or equivalent.

## Course literature

Epstein, Marc J.: Making Sustainability Work.Best practices in managing and measuring corporate social, environmental, and economic impacts. Greenleaf Publishing Limited, 2008.

## Examination

- PRO1 - Project, 4.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 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.