



MJ182V States and Trends 7.5 credits

Tillstånd och trender

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

Establishment

Course syllabus for MJ182V valid from Autumn 2011

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Completed upper secondary education incl documented proficiency in Swedish B and English A or equivalent and at least 30 hp within the area of Technical Science or Natural Science.

Language of instruction

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

Intended learning outcomes

The overall objective in this course is to describe, debate and discuss states and trends in an increasingly globalized world, focusing on environmental, technological and development issues.

After concluding this course the student should be able to:

- Describe and discuss a number of key issues / occurrences in the area of environment, technology and development and their possible trends.
- Describe, discuss and comment on the essential parts of a lecture, and give a short reflection and analysis of the subject area.
- In a written case study describe, explain and analyze a complex problem within the area of environment, technology and development from a sustainability perspective.
- Make a verbal case study presentation.
- In a poster summarize a case study in text and picture.

Course contents

The course consist of a series of seminars with lecturers from industry, researchers and experts from university and institutes, politicians and NGOs, sharing their experiences and perspectives. Each seminar is divided into three parts: introductory lecture, group discussion and plenary session. The course participants have the opportunity to discuss and reflect different opinions together with the lecturers. Some of the issues discussed in this course are:

- Is there a world “oil peak”? What are the alternatives?
- India and China: economic growth, environment and technology!
- Climate change and emissions trading!
- Eco design!
- Strategies for sustainable consumption!
- Future air traffic!
- Sustainable growth!
- Water scarcity: regional conflict and cooperation!
- How to end world poverty?
- Sustainable energy systems!

Course literature

Scientific articles selected by lecturers.

Examination

- ÖVN1 - Exercises, 1.5 credits, grading scale: P, F
- PRO1 - Project, 4.5 credits, grading scale: P, F
- NÄR1 - Attendance, 1.5 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.

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.