



MJ1505 Climate Threats and Climate Strategies in Today's and Tomorrow's World 7.5 credits

Klimathot och klimatstrategier i dagens och morgondagens värld

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

Establishment

Course syllabus for MJ1505 valid from Autumn 2009

Grading scale

P, F

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

At least 30 academic credits (ECTS) in a program of engineering or natural science.

Language of instruction

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

Intended learning outcomes

This course treats the current knowledge of climate change and its effects, and reflects on the climate and energy strategies of today and tomorrow on a community and individual level. After concluding this course the student should be able to:

- Describe, discuss and comment on the mechanisms behind the function of the climate system, and the effects the human-caused climate change have in the short and long term on the local, national and global level.
- Describe, discuss and comment on local, national and global climate and energy strategies and analyse advantages and disadvantages from an ecological, economic and social perspective.
- In a written report discuss and analyse climate threats and strategies and make an oral presentation.

Course contents

This course consists of a series of seminars where different lecturers from academia, the political arena, business, media and NGOs share their experiences and perspectives from their own areas. Time is set aside for questions and discussion. The following themes will be treated:

- Have the climate changed? How will Sweden be effected?
- United States, China and India – Key actors in the climate process?
- Climate change and ecosystems.
- The climate strategy of Sweden and emissions trading.
- The role of climate change in an EU-perspective: efforts, objectives and future possibilities.
- Energy supply and climate change: what can be done and what are the solutions?
- Future fuels.
- Climate threats and strategies in developing countries.
- What will be the consequences for Stockholm and other vulnerable parts of Sweden with a changing climate?
- Climate programmes and future strategies for the city of Stockholm.

Course literature

Journal papers and reports suggested by every lecturer.

Examination

- SEM1 - Seminars, 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.

Other requirements for final grade

75% presence at lectures (NÄR1, 1,5cr). Project work (PRO1, 4,5cr). Oral presentation (SEM1, 1,5cr).

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.