

Syllabus

for course at first level

Climate Change Solutions

Att motverka klimatförändringen

7.5 Higher Education

Credits

7.5 ECTS credits

Course code:	MI2006
Valid from:	Autumn 2020
Date of approval:	2020-01-13
Department	Department of Environmental Science
Main field:	Climate Science
Specialisation:	G1N - First cycle, has only upper-secondary level entry requirements

Decision

This course syllabus was approved by the Board of Science at Stockholm University on 13/01/2020.

Prerequisites and special admittance requirements

Basic eligibility.

Course structure

Examination code	Name	Higher Education Credits
HELA	Climate Change solutions	7.5

Course content

The course covers activities and solutions aimed to reach climate neutrality. The course highlights:

- The basic principles of operation of the climate system and of climate change
- The natural science, socio-economic and political causes of the ongoing climate change
- The effects of climate change on the earth system and on society from the perspectives of natural science, socio-economy and politics
- Local and global activities and possible solutions to reach a climate neutral and sustainable society and assessment of both positive and negative co-effects of proposed activities
- Arguments on the responsibilities of the individual and of society for justice and equality in relation to environmental issues
- The value and limitations of various political activities to mitigate greenhouse gas emissions and of political steering of the technological development toward a sustainable energy supply

Learning outcomes

Upon completion of the course, students are expected to be able to:

- Explain the basic principles of the climate system and of climate change
- Explain the natural science, socio-economic and political causes of the ongoing climate change
- Explain the effects of climate change on the earth system and on society from the perspectives of natural science, socio-economy and politics
- Identify local and global activities and possible solutions to reach a climate neutral and sustainable society and analyse both positive and negative co-effects of proposed activities
- Evaluate arguments on the responsibilities of the individual and of society for justice and equality in relation to environmental issues
- Understand the value and limitations of various political activities to mitigate greenhouse gas emissions and

of political steering of the technological development toward a sustainable energy supply

Education

Instruction consists of web-based lectures and exercises as well as campus-based seminars. The course is offered in English.

Forms of examination

a. The course is examined in the following manner: Assessment takes place through written exam.

b. The course has no compulsory instruction.

c. Grading: Grades will be set according to a seven-point scale related to the learning objectives of the course:

A = Excellent

B = Very Good

C = Good

D = Satisfactory

E = Sufficient

Fx = Fail

F = Fail

d. The grading criteria will be distributed at the beginning of the course.

e. Students who receive a failing grade on a regular examination have a right to retake the examination as long as the course is still provided. The number of exams is not limited. Other mandatory course parts are equated with examinations. A student who has received a passing grade on an examination may not retake the examination to attain a higher grade. A student who has failed the same examination twice is entitled to have another examiner appointed, unless there are special reason to the contrary. Such requests should be made to the department board. The course has at least three exams per academic year in the years that the course is offered. For the academic years that the course is not offered, at least one exam is offered. The course includes at least two examination opportunities for each course unit per year when the course is given. At least one examination opportunity will be offered during a year when the course is not given.

f. This course does not include any opportunities to complete a supplementary assignment in order to convert the grade Fx into a passing grade.

Interim

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board. The provision also applies in the case of revisions to the course plan.

Limitations

This course may not be included in a degree together with the courses Course Climate Change Solutions (MI3001).

Misc

The course is offered as a separate course but may be included in a degree. The course is offered in collaboration with: University of California, Department of Geological Sciences, Department of Natural Geography, Department of Meteorology, Department of Biology Education, Department of Political Science, Institute for International Economic Studies, Department of English, Department of Archaeology and Classical Studies, Department of Economic History and International Relations, Department of Law, and Department of Philosophy.

Required reading

The course literature is decided by the department board and published on the Department of Environmental Science and Analytical Chemistry's website at least two months before the start of the course.