

Syllabus

for course at second level

Problemlösning för en hållbar omställning
Problem solving for a sustainable transition

15.0 Higher Education Credits
15.0 ECTS credits

Course code:	MI8019
Valid from:	Autumn 2024
Date of approval:	2023-10-17
Changed:	2023-12-06
Department:	Department of Environmental Science
Subject group:	Environmental Science
Specialisation:	A1F - Second cycle, has second-cycle course/s as entry requirements
Main field:	Environmental Science

Decision

Finalized by: Områdesnämnden för naturvetenskap, 2023-10-17

Prerequisites and special admittance requirements

Admission to the course requires knowledge corresponding to 30 credits at the advanced level in a main area in the field of science and English 6.

Course structure

Examination code	Name	Higher Education Credits
HELA	Problem solving for a sustainable transition	15.0

Course content

This course addresses problem-solving within the environmental, climate, and sustainability fields. It focuses on preventive work and problem-solving to enable green transition in both public and private sectors. Students work in project form both individually and in groups. They are expected to define problems, gather necessary information, develop strategies to solve the problems, choose methods, evaluate, discuss, and communicate results.

Learning outcomes

After completing the course, the student is expected to be able to:

- Synthesize and apply knowledge to develop solutions to societal problems within the environmental, climate, and sustainability fields.
- Evaluate and reflect on the possibilities and limitations of using existing technology, knowledge, and regulations to solve specific problems.

- Communicate solutions effectively in a relevant context.

Education

Teaching consists of lectures, seminars, exercises and project work.

The teaching language of the course is specified prior to each course instance and is available in the digital course catalog.

Forms of examination

a. The course is examined as follows: Assessment takes place through project presentations and written assignments.

The examiner can decide on adapted or alternative examination formats for students with disabilities.

The project work will not be examined if submitted late; however, the examiner should consider special circumstances. If the teaching is conducted in English, examinations may also be conducted in English.

b. A passing final grade requires participation in seminars and exercises. If special reasons exist, following consultation with the teacher involved, the examiner may grant the student exemption from the obligation to participate in certain compulsory instruction.

c. Grading: The course's final grade is set according to a seven-point criterion-referenced scale:

A = Excellent

B = Very good

C = Good

D = Satisfactory

E = Adequate

Fx = Failed, some additional work is required

F = Failed, much additional work is required

d. The course's grading criteria are handed out at the start of the course.

e. Students who receive a failing grade on a regular examination are allowed to retake the examination as long as the course is still provided. The number of examination opportunities is not limited. Other mandatory course elements 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 reasons to the contrary. Such requests should be made to the department board. The course includes at least three examination opportunities (if necessary: for each course module) per academic year the course is offered. For the academic years that the course is not offered, at least one examination opportunity is offered.

f. Students awarded the grade Fx are given the opportunity to improve their grade to E. The examiner decides on the supplementary assignments to be performed and the pass mark criteria. The supplementary assignments will take place before the next examination opportunity.

Interim

Students may request that the examination be conducted in accordance with this course plan even after it has ceased to be valid. However, this may not take place more than three times over a two-year period after the course was discontinued. Requests must be made to the departmental board. The provision also applies in the case of revisions of the course syllabus and revisions of the required reading.

Limitations

The course cannot be included in the degree together with the course Problem Solving in Environmental and Health Protection (MI8015).

Misc

The course is included as an elective course in the Master's program in Environmental and Health Protection, but can also be taken as a separate course