

MVEN17, Environmental Science: Planning with Climate in Focus, 15 credits

*Miljövetenskap: Samhällsplanering med klimatperspektiv, 15
högskolepoäng*

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2010-03-31 to be valid from 2011-01-01, spring semester 2011.

General Information

The course is a compulsory second cycle component of a degree of Master (120 credits) in the Master's programme in applied climate strategy.

Language of instruction: Swedish

Main field of studies

Environmental Science

*Depth of study relative to the degree
requirements*

A1F, Second cycle, has second-cycle
course/s as entry requirements

Learning outcomes

The aim of the course is that students, on its completion, shall have attained the following knowledge and skills:

Knowledge and understanding

The students are expected to be able to

- account for the possibilities and limitations of physical planning with regard to contributing to satisfying the goals of climate policy
- account for the cycles of substances, state their natural sources and describe how they are affected by different choices in community planning, and how these choices can mitigate or reinforce different environmental problems

- compare climate policy work at the municipal and regional levels, and in strategic sectors such as transport and energy, and account for how nature and environmental factors are taken into account in climate policy work at different levels and in different sectors.

Competence and skills

The students are expected to be able to

- critically review, analyse and apply climate initiatives in different sectors of society
- reflect on problems of interaction between environmental and climate goals and other societal objectives
- integrate and compile information concerning physical planning and practical work on environmental goals and climate policy and present the results in speech and writing

Judgement and approach

The students are expected to be able to

- assess the importance of community planning for the development of a social development that is sustainable with regard to the climate and in other ways
- identify their need of knowledge and take responsibility for their ongoing learning

Course content

The course starts with a general overview of the concept of sustainable community planning and its implications. Students specialise in relevant aspects of local and regional community planning and its conditions, and in implementation of planning at municipal and national levels. Theory is mixed with applications within the energy and transport sector and practical sustainability work in different municipalities in collaboration with different actors in society. The students review and evaluate the climate strategies of some municipalities based on their design, feasibility and support in different sectors. In order to link community planning and the future impact of climate change to effects on nature and the environment, the course includes a science component focusing on the work on environmental goals in which different processes affecting the environmental goals are studied and are connected to different choices in community planning. Furthermore, the impact of climate change on the environmental goals will be included. The conflicts and synergies between the environmental goals and especially the goal of limited climate impact will be discussed at a seminar. The course is concluded with a take-home exam on an issue linking the different components of the course.

Course design

The teaching consists of lectures, seminars, exercises and project work. Participation in seminars, exercises, project work and associated other teaching is compulsory.

Assessment

The assessment is based on written assignments and project presentations during the course and an oral or written exam. Students who failed the first exam opportunity will be offered an additional exam opportunity soon thereafter.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, Pass, Pass with distinction.

For a Pass on the course as a whole, students must have passed the exam, the written assignments and project presentations, and participated in all compulsory components. The final grade is determined by an aggregate of the assessed components.

Entry requirements

To be admitted to the course, students must have a first-cycle degree of at least 180 credits or an equivalent international degree. Furthermore, they must also have passed the courses MVEN15 Climate Change, Science and Society, 15 credits, and MVEN16 Climate Policy, Governance and Communication, 15 credits, or the equivalent.

Students must also have Swedish B and English B or the equivalent.

Further information

Subcourses in MVEN17, Environmental Science: Planning with Climate in Focus

Applies from V11

1001 Environmental Science: Planning with Climate in Focus, 15,0 hp
Grading scale: Fail, Pass, Pass with distinction