

**MVEM45, Environmental Science: Master's (Two Years)  
Thesis - Specialization in Applied Climate Strategies, 45  
credits**

*Miljövetenskap: Examensarbete för masterexamen - Fördjupning i  
tillämpad klimatstrategi, 45 högskolepoäng*  
Second Cycle / Avancerad nivå

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### Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2012-06-19 to be valid from 2012-06-20, autumn semester 2012.

### General Information

The course is a compulsory second cycle component of a degree of Master (120 credits) in environmental science specialising in applied climate strategy.

*Language of instruction:* English and Swedish  
If needed, the course is taught in English.

*Main field of studies*

Environmental Science

*Depth of study relative to the degree requirements*

A2E, Second cycle, contains degree project for Master of Arts/Master of Science (120 credits)

### Learning outcomes

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

*Knowledge and understanding*

On completion of the course, the students shall be able to

- demonstrate the ability to apply specialised knowledge acquired in the course component of the programme focusing on the implications of anthropogenic climate change, climate strategy work to prevent accelerating change or the possibilities of society to adapt to the expected change

### *Competence and skills*

On completion of the course, the students shall be able to

- demonstrate the ability to critically and systematically integrate knowledge and to analyse, assess and handle complex phenomena, issues and situations based on knowledge of anthropogenic climate change, climate strategy work to prevent accelerating change or the possibilities of society to adapt to the expected change
- demonstrate the ability to identify and formulate issues critically, autonomously and creatively as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames, and
- demonstrate the ability to critically assess their results and in speech and writing present their conclusions and the knowledge and logical foundations on which they are based

### *Judgement and approach*

On completion of the course, the students shall be able to

- demonstrate the ability to make assessments informed by relevant disciplinary, social and ethical issues, and
- identify their need of further knowledge and take responsibility for their ongoing learning

## Course content

The course is to provide students with good conditions for further postgraduate study and/or skills for professional employment.

It mainly consists of an individually executed project supervised by researchers or the equivalent at Lund University. Supervision can also take place in collaboration with an external supervisor, for example at a company or public authority. The degree project can be based on laboratory work, field studies and/or literature studies. It is to have a clear climate strategy profile, i.e. focus on the implications of climate change, climate strategy work to prevent accelerating change or the possibilities of society to adapt to the expected change. The subject has a clear interdisciplinary character, and differs in this respect from traditional science subjects. The orientation and design of the project are to be determined by the student, supervisor and course director in consultation. The students are to be encouraged to independently formulate their project assignment in the chosen specialisation and to find appropriate supervision. The supervisor is to have experience in the chosen field.

Depending on the nature of the work, the course director can decide which components are to be included in the course. The aim is to develop the student's ability to execute an independent degree project adapted to the student's specialisation and the issue of the project.

## Course design

The course is project-oriented, and consists of an individual project to be executed independently by the student in consultation with a supervisor who has experience in the chosen area. The principal supervision takes place either at a research department or at a company or public authority. The project is to be presented in the form of a report complemented with a summary in English and a popular science summary in Swedish. In connection with the assessment, the students are to report their projects orally at a seminar.

The assessment is made by an examination committee in consultation with the supervisor. The examining committee is to be composed of at least two members: the examiner (the course director or a lecturer appointed by the course director) and a co-assessor from another subject, research group or department.

## Assessment

*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.

The grade on the degree project is determined by the examiner in consultation with the examining committee. The supervisor is not to be a member of the examining committee, but is to serve as an advisor to it. For a Pass on the whole course, students must have passed the project report and oral presentation, 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 knowledge equivalent to MVEN15 Climate Change, Science and Society, 15 credits, MVEN16 Climate Policy, Governance, and Communication, 15 credits, MVEN17 Planning with Climate in Focus, 15 credits, and MVEN18 Methods for Climate Risk Management, 15 credits, as well as English B or the equivalent.

Subcourses in MVEM45, Environmental Science: Master's (Two Years)  
Thesis - Specialization in Applied Climate Strategies

Applies from V12

1201 Master's (Two years) Thesis - Applied Climate Strategies, 45,0 hp  
Grading scale: Fail, Pass, Pass with distinction