

MVEM12, Master's (two years) Thesis in Environmental Science, 30 credits

*Miljövetenskap: Examensarbete för masterexamen, 30
högskolepoäng*

Second Cycle / Avancerad nivå

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2008-06-11 to be valid from 2008-06-11, autumn semester 2008.

General Information

The course is a compulsory second cycle component of a degree of Master of Science (120 credits) in environmental science.

Language of instruction: English and Swedish

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:

- Specialised knowledge in one of the chosen environmental science specialisations, and the ability to develop and use ideas and theories in this specialisation in order to identify and systematise the causes of complex environmental science problems
- Ability to apply theories of environmental problems at scientific depth to analyse and understand the situation of natural resources and environmental and health protection in present-day society Ability to plan and perform preventive environmental science work in order to promote long-term sustainable development

- Ability to make assessments of environmental problems by integrating theory with complex real data Skills in using methods to measure and analyse anthropogenic disturbances in air, earth, water and the biosphere Ability to statistically evaluate, test and interpret measurement and analysis results
- Ability to communicate their conclusions and underlying theories to both experts in the field and non-experts Knowledge of methods of environmental information searches in both national and international contexts, and ability to conduct interdisciplinary work
- Study skills enabling self-governed and independent learning

Course content

The course is to provide students with good conditions for further study, e.g. postgraduate degrees and/or skills for professional activities in environmental science. It mainly consists of an individually executed project supervised by researchers or the equivalent at Lund University. Supervision can also be provided by an external supervisor 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 environmental science profile, i.e. deal with identification, quantification and understanding of the causes of environmental problems and/or proposals of measures to prevent or rectify environmental damage. The subject is mainly based in science but differs from traditional science subjects in including interdisciplinary and applied perspectives. The specialisation and design of the project is to be determined by the student, supervisor and course director in consultation. The student is to be encouraged to independently find a project assignment in the chosen specialisation and to find appropriate supervision. The supervisor is to have experience in the chosen field. If the student is unable to find an assignment and supervisor, he or she is to contact the course director at the latest one month before the start of the course. 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 that is adapted to the student's environmental science 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.

Assessment

The project is to be presented in the form of a report complemented with a summary in English and a page containing a Swedish popular science summary. In connection with the assessment, the students are to report their projects at a seminar.

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 after having consulted an examining committee. The examining committee is to be composed of at least two members: the examiner or a lecturer appointed by the examiner and a lecturer (critical reviewer) from a division other than the one housing the project. The supervisor is not to be a member of the examining committee, but should serve as an advisor to it.

For a Pass on the course as a whole, students must have passed the project report and participated in all the 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 Bachelor's degree including at least 90 credits in science subjects of which 30 credits in environmental science.

Furthermore, students must have 60 second-cycle credits in environmental science, including MVEN03 Environmental Methodology (15 credits), MVEN04 Applied Environmental Science (15 credits).

Subcourses in MVEM12, Master's (two years) Thesis in Environmental Science

Applies from H07

0701 Master's (two years) thesis in Environmental Science, 30,0 hp
Grading scale: Fail, Pass, Pass with distinction