

MVEM02, Environmental Science: Degree Project, Master 1 year, 15 credits

*Miljövetenskap: Examensarbete för magisterexamen, 15
höskolepoäng*

Second Cycle / Avancerad nivå

Details of approval

The syllabus is an old version, approved by Study programmes board, Faculty of Science on 2011-02-03 and was valid from 2011-02-03 , autumn semester 2011.

General Information

The course is a compulsory second cycle component of a degree of Master of Science (60 credits) in environmental science.

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

<i>Main field of studies</i>	<i>Depth of study relative to the degree requirements</i>
Environmental Science	A1E, Second cycle, contains degree project for Master of Arts/Master of Science (60 credits)
Environmental Science	A1E, Second cycle, contains degree project for MA/MSc (60 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 knowledge and understanding of environmental problems and issues and be able to develop and use ideas and theories in research contexts or for skills development in the area demonstrate the ability to identify and systematise causes and consequences of local, regional and global environmental problems
- apply knowledge and understanding of the situation of natural resources and the environment in present-day society demonstrate the ability to apply knowledge of the function of natural cycles in air, water and the biosphere and of the anthropogenic impact on them

Competence and skills

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

- make assessments of environmental problems by applying theories to real data use statistics to evaluate, test and interpret measurement and analysis results exercise public authority and conduct management with regard to environmental issues
- report and discuss in speech and writing their conclusions and the knowledge and arguments on which they are based in dialogue with different audiences, and demonstrate the skills required to make assessments in research and development work or employment in some other qualified capacity

Judgement and approach

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

- demonstrate the ability to make assessments in the main field of study informed by relevant disciplinary, social and ethical issues and also to demonstrate awareness of ethical aspects of research and development work demonstrate the ability to identify the personal need for further knowledge and take responsibility for their ongoing learning

Course content

The course content is mainly based on an individually completed project that is to be 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. The project is to be presented in both speech and writing (Swedish or English). 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 topic of the project is to be determined by the students, supervisor and examiner in consultation. It is to entail a specialisation of previously completed environmental science studies.

The course deals with experimental design, research methodology, evaluation of findings and report writing. It also includes literature studies, seminar activities and, in

certain cases, internship or a methods course. The aim of these components is to enable the students to execute an independent degree project adapted to the individual student's environmental science specialisation and the issue addressed in the project.

Course design

The course is project-oriented, and consists of an individual project executed independently by the student in consultation with a supervisor possessing experience of the chosen topic. The principal supervision takes place either at a research department or at a company or public authority. Special teaching of report writing and other presentation techniques is compulsory.

Assessment

The presentation is to have the form of a report complemented with an abstract in English and a Swedish popular science summary. In connection with the assessment, the student is to present his or her work orally 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 English B and a degree of Bachelor of Science in environmental sciences or the equivalent, and at least 30 credits from courses in the main field of environmental science including MVEN03 Methodology in Environmental Science, 15 credits.

Specific admission requirements may be introduced if the specialisation of the project demands it.

Equivalent prior knowledge that has been acquired in some other way can also give admission to the course

Further information

Subcourses in MVEM02, Environmental Science: Degree Project, Master 1 year

Applies from H12

1101 Environmental Science, Degree Project, Master 1 Year, 15,0 hp
Grading scale: Fail, Pass, Pass with distinction