



LUND
UNIVERSITY

Faculty of Science

MVEK12, Environmental Science: Degree Project, 15 credits *Miljövetenskap: Examensarbete för kandidatexamen, 15 högskolepoäng* **First Cycle / Grundnivå**

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2021-05-28 to be valid from 2021-05-28, spring semester 2022.

General Information

The course is a compulsory first-cycle course for a degree of Bachelor of Science in Environmental Science, but may be replaced by MVEK13 Environmental Science: Degree Project for a degree of Bachelor of Science in Environmental Health Science.

Language of instruction: Swedish and English

The course is given in Swedish but supervision can be offered in English following an agreement between the supervisor and English-speaking students.

Main field of studies

Environmental Science

Depth of study relative to the degree requirements

G2E, First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree project for BA/BSc

Learning outcomes

The aim of the degree project is that the student should acquire advanced and complementary knowledge in the selected environmental science field, and develop her/his use of environmental research methodology and the ability to independently carry out a limited research project. The course will also prepare students for professional work in the field of environmental science and studies at second-cycle level.

Knowledge and understanding

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

- present subject area and account for the current state of knowledge in the

This is a translation of the course
syllabus approved in Swedish

- selected environmental science field
- account for methods used in the selected environmental science field, their advantages and limitations

Competence and skills

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

- based on scientific literature or other information retrieval, independently search, acquire, compile, assimilate and convey knowledge needed to scientifically process a problem in environmental science
- independently and within given time frames formulate, carry out and evaluate a limited research project
- in speech and in writing present a scientific project including problem formulation, methods and results in both an interdisciplinary and a popular science manner
- demonstrate the skills required to work independently in the environmental science area.

Judgement and approach

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

- relate a problem to applicable aspects of natural science, environmental science, society and ethics
- provide arguments for how human activity should be designed in a sustainable way to avoid e.g. negative environmental effects
- assess her/his own knowledge need and take responsibility for her/his own knowledge development in the selected field of environmental science

Course content

The course consists of an independent research project. The specialisation and format of the degree project are decided in consultation with the examiner and the supervisor. The student will carry out the work, independently with some supervision, including information retrieval, compilation, analysis and evaluation of the obtained results.

Course design

The course is carried out, in agreement with the examiner, as a research project that is planned in consultation with a supervisor with experience in the selected environmental science field. The student will contact a researcher at Lund University to find a suitable project and a supervisor. The work is carried out independently but under supervision.

The student will write an academic paper and a popular science summary in Swedish or English, as well as a scientific abstract in English. The work will be presented orally in Swedish or English at a public seminar. Prior to the presentation, the student, together with the supervisor, will review the work based on the learning outcomes specified in the syllabus and/or in the Higher Education Ordinance for a degree of Bachelor.

The degree project, scientific report, popular science summary, abstract, oral presentation and oral and written critical review of another student's project are compulsory.

Assessment

The assessment is based on a written presentation in the form of a paper accompanied by an abstract in English, a popular science summary and a written critical review of another student's project. The oral presentation and critical review take place at seminars.

Following the final approval, the student is responsible for the submission of the paper, popular science summary and abstract to be published in the University's database as well as for archiving at the department.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

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.

To pass the entire course, approved scientific paper, approved oral presentation, approved abstract, approved popular science summary, approved written and oral critical review of another student's project, and submission of documents to the University's database are required. The final grade is decided through a combination of the results of all compulsory parts.

Entry requirements

To be admitted to the course, 75 credits in Environmental Science are required, including studies equivalent to MVEA10 Environmental Science: Basic Course, 15 credits, MVEC18 Environmental Science: Law in Environmental Studies, 15 credits, MVEC20 Environmental Science: Industrial Environmental Economics, 15 credits, or MVEB15 Environmental Science: Governing the Environment, 15 credits.

In addition, students must have completed KEMA20 Chemistry: General Chemistry, 15 credits, and three of the following courses: GEOA82 Geology: Earth, Water and the Environment, 15 credits, FYSA25 Physics: Environmental Physics, 15 credits, BIOA10 Biology: Cell and Microbiology, 15 credits, and BIOC10 Biology: Ecology, 15 credits.

Knowledge acquired in a different way but equivalent to these entry requirements may also qualify to be admitted to the course.

Subcourses in MVEK12, Environmental Science: Degree Project

Applies from V22

2201 Environmental Science: Degree Project, 15,0 hp
Grading scale: Fail, Pass, Pass with distinction