

Syllabus

BI4049.1 Applied Environmental Assessment, 15.0 credits

Tillämpad miljöanalys

The course is given as course independent of study programme

Syllabus discontinued 30 November 2007

Version 1 in Slukurs. Corresponds to version 1 in Ladok

Syllabus approved

21 October 1997

The version applies to students admitted from spring 1999 to autumn 2008

The version is not a module version

Subjects

Biology/Soil science

Education cycle

First cycle

Modules

Title	Code	Credits
Single module	0101	15.0

Advanced study in the main field

Grading scale

Pass / Failed

The requirements for attaining different grades are described in the course assessment criteria which are contained in a supplement to the course syllabus. Current information on assessment criteria shall be made available at the start of the course.

Language

Swedish

Prior knowledge

The equivalent of: 40 Swedish University Credits (SUC) of basic (A-level) and intermediate (B-level) courses in Biology or Soil sciences, together with a basic course in Inorganic chemistry. Knowledge of basic Statistics and Ecology is desirable.

Objectives

The course provides advanced knowledge of the techniques to analyse, describe, and evaluate the state of the environment and changes over time in aquatic and terrestrial ecosystems and the interface between the two. An additional objective is to contribute to a better understanding of the cause and effect relationships between environmental variables and ecosystem processes.

Content

After this course students will

- have knowledge of national and international environmental monitoring programs
- be able to critically examine environmental reports, their goals, data evaluation, and conclusions
- have knowledge of quality assurance protocols
- be able to use environmental data to evaluate the effects of acidification, eutrophication, heavy metals, and persistent organic pollutants (primarily in aquatic systems)
- be able to understand and apply environmental risk assessment protocols
- understand the use and application of basic mathematical models for impact assessment
- be able to design environmental studies and propose measures for improvement.

Implementation

Lectures ca 80 h

Seminars ca 40 h (compulsory)

Project work ca 80 h (compulsory)

Examination

Requirements for examination

Written and oral presentations of seminars and project work. Written examination.

Pass all parts under "Examination".

- If the student fails a test, the examiner may give the student a supplementary assignment, provided this is possible and there is reason to do so.
- If the student has been granted special educational support because of a disability, the examiner has the right to offer the student an adapted test, or provide an alternative assessment.
- If changes are made to this course syllabus, or if the course is closed, SLU shall decide on transitional rules for examination of students admitted under this syllabus but who have not yet passed the course.
- For the examination of a degree project (independent project), the examiner may also allow the student to add supplemental information after the deadline. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Additional information

- The right to take part in teaching and/or supervision only applies to the course date to which the student has been admitted and registered on.
- If there are special reasons, the student may take part in course components that require compulsory attendance at a later date. For more information on this, please refer to the regulations for education at Bachelor's and Master's level.

Responsible department

Department of Aquatic Sciences and Assessment

Supplementary Information

Finalized by: Programnämnden för naturresursprogrammet
Biology Area: Other Biology Courses