



AE2506 Environmental GIS 6.0 credits

Miljötillämpningar med GIS

This is a translation of the Swedish, legally binding, course syllabus.

Establishment

Course syllabus for AE2506 valid from Spring 2009

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Specific prerequisites

Prerequisites: AE2502 Natural Resources Management, AE2505 Water Systems and Geographic Information or equivalent.

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

The course will provide the students with:

- Enhanced knowledge and skills in use of Geographic Information Systems (GIS) for different environmental applications with a spatial dimension
- Knowledge and experience of independent project work and problem solving in the interface between natural science, technology and decision support for the students to be capable of independent use of GIS for solving environmental problems.

Course contents

Environmental applications using geographic information systems for analysis and problem solving concerning a range of environmental problems with a spatial dimension. A wide range of environmental issues can be chosen within the scope of the course, related to natural resources and ecosystem services. Examples of methods and tools with a spatial dimension that will be applied are landscape ecological and hydrologic models, models of land use change and environmental decision support systems.

Disposition

Summer course with lectures and discussions during one week, independent work with project task during summer, follow-up during one week, including oral presentation. Number of participants is limited. The course starts in June, schedule decided together with participants.

Course literature

To be announced on the course webpage before the course starts.

Examination

- PRO1 - Project Task With Written and Oral Reporting, 6.0 credits, grading scale: P, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Project task PRO1 with report writing and oral presentation, 6,0 credits.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.