



AE2402 Environmental Geology

7.5 credits

Miljögeologi

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

Establishment

Course syllabus for AE2402 valid from Spring 2011

Grading scale

A, B, C, D, E, FX, F

Education cycle

Second cycle

Main field of study

Specific prerequisites

Three years of university studies (180 ECTS) in Engineering, Social Science or Architecture and documented proficiency in English B or equivalent.

Language of instruction

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

Intended learning outcomes

One of the aims of the course is to increase the student's awareness and understanding of a broad spectrum of human interactions with the geological environment. Still another aim is to increase the student's written and oral presentation skills.

Course contents

The course consists of a series of lectures, many accompanied by exercises where the students work on applied or theoretical problems.

The main topics below are all related to human interaction with the environment and how we can minimize risk to humans and infrastructure.

- Foundations of environmental geology;
- Earth processes and natural hazards: earthquakes, volcanic activity, rivers and flooding, slope processes, landslides and subsidence, coastal processes;
- Resources and pollution: water, mineral, and energy resources, waste as a resource, waste management and pollution;
- Environmental management, global perspectives and society: global climate change, geology and health.

The students will be required to prepare an oral and written presentation of a specific subject chosen by the student and approved by the teacher.

Course literature

Introduction to Environmental Geology, third edition by Edward A. Keller, 583 p.

Examination

- ÖVN1 - Assignments, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, 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.

Other requirements for final grade

Written examination (TEN1; 4,5 cr)
Exercises (ÖVN1; 3 cr)

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.