AE1602 Hydrology 7.5 credits

Hydrologi

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

Establishment

Course syllabus for AE1602 valid from Autumn 2017

Grading scale

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

Education cycle

First cycle

Main field of study

Technology

Specific prerequisites

Geology and Geotechnical Engineering besides Fluid Mechanics for Built Environment

Language of instruction

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

Intended learning outcomes

The course presents the processes in the hydrological cycle, gives computational ability and knowledge about field methods

Course contents

The hydrological cycle
Atmospheric water
Subsurface water: infiltration, recharge, unsaturated and saturated flow. Test pumping. Groundwater prospecting and supply. Surface water: streamflow hydrographs, direct runoff, the unit hydrograph
Hydrologic statistics, frequency analysis, hydrologic design

Course literature

Meddelas vid kursstart

Examination

- FÄL1 - Field Exercise, 1.0 credits, grading scale: P, F
- ÖVNA - Exercise, 3.5 credits, grading scale: P, F
- TENA - Examination, 3.0 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

Approved written examination TENA; 3,0 ECTS grade scale: A-F and approved exercise, ÖVNA, 3.5 ECTS and Field Exercise, FÄL1 1.0 ECTS with grade scale: P, F

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.