



KH1402 Ecological Chemistry

6.0 credits

Ekologisk kemi

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

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

Establishment

Course syllabus for KH1402 valid from Autumn 2011

Grading scale

P, F

Education cycle

First cycle

Main field of study

Chemistry and Chemical Engineering, Technology

Specific prerequisites

Completed upper secondary education including documented proficiency in Swedish corresponding to Swedish B, and English corresponding to English A. For students who received/will receive their final school grades after 31 December 2009, there is an additional entry for mathematics as follows:

documented proficiency in mathematics corresponding to Mathematics A.

And the specific requirements of mathematics, physics and chemistry corresponding to Mathematics D, Physics B and Chemistry A.

Language of instruction

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

Intended learning outcomes

Students who complete the course can handle:

common operation in an organic chemistry laboratory and also understand the principles behind them.

They can also analyse organic compounds and interpret the resulting spectra.

Course contents

This course has an organic chemical approach and lists the main steps for the isolation and identification of natural products and methods to study biological function.

The course contains both organic spectroscopy (UV, IR, NMR and mass spectroscopy) and laboratory work such as distillation, gas chromatography, thin layer chromatography and liquid chromatography. The theory will be explained before any practical part will be done. Students are expected to present handouts. The course ends with a "Report day" when students report selected laboratory work in the presence of teachers.

Course literature

Utdelt material.

Hand outs.

Examination

- LAB1 - Laboratory Work, 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.

Other requirements for final grade

Passed laboratory work (LAB1; 6 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.