



# KH0002 Introduction to Chemistry 1.5 credits

## Introduktionskurs i 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 KH0002 valid from Autumn 2015

## Grading scale

P, F

## Education cycle

Pre-university level

## Specific prerequisites

General entry requirements to higher education including prior knowledge in Swedish and English and see below

**Completion of upper-secondary school from 1 July 2011 and adult education at upper-secondary level (gymnasium) from 1 July 2012 (Gy2011)** Specific entry requirements A8

**Specific entry requirements:** Physics 2, Chemistry 1 and Mathematics 3c. **A pass in each of the subjects is the lowest acceptable grade.**

**Completion of upper-secondary school by 1 July 2011 and adult education at the upper-secondary level (gymnasium) by 1 July 2012** Specific entry requirements 8 \*.

**Specific entry requirements:** Mathematics D, physics B and Chemistry A. **Passed or 3 in each of the subjects is required.**

## Language of instruction

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

## Intended learning outcomes

To repeat and strengthen basic concepts and methods in chemistry.

## Course contents

Periodic system

- Atomic weights, isotopes, electrons, ions, properties

Nomenclature

Chemical formulae

Balancing reaction formulae

Stoichiometry

- expressing things in moles, mixtures contents, gravimetry, volumetrics

## Course literature

Atkins, P W & Jones, L: **Chemistry – Molecules, Matter, and Change**, 4th ed., Freeman 2000

## Examination

- TEN1 - Examination, 1.5 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

Approved examination (TEN1; 1.5 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.