



KD1100 Organic Chemistry 2 7.5 credits

Organisk kemi 2

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 KD1100 valid from Spring 2011

Grading scale

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

Education cycle

First cycle

Main field of study

Chemistry and Chemical Engineering, Technology

Specific prerequisites

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

And the specific requirements of mathematics, physics and chemistry corresponding to Mathematics E, 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

The course is based on the knowledge achieved in the course Organic Chemistry 1 and will provide:

- continued introduction to organic chemistry
- basic knowledge for advanced studies in chemistry
- further skills in experimental work

Course contents

- Conjugation and aromaticity
- Aromatic synthetic chemistry
- Carbonyl chemistry
- Carboxylic acids and their derivatives
- Alcohols, thiols and amines
- Oxidation and reduction
- Radicals

The experimental part of the course is intended to give skills in basic laboratory work; microscale techniques, vacuum distillation, recrystallization, chromatography and spectroscopic methods.

Course literature

- Clayden, Greeves, Warren, Wothers: Organic Chemistry, Oxford University Press, Oxford, 2001, ISBN 0-19-850346-6
- Säkerhetskompndium, Organisk kemi, KTH
- Laborationskompndium, Organisk kemi, KT

Examination

- LAB1 - Laboratory Work, 3.0 credits, grading scale: P, F
- PRO1 - Project, 1.5 credits, grading scale: P, F
- TEN1 - 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.

Other requirements for final grade

1. Written exam (TEN1), 3 credits
2. Laboratory practice (LAB1), 3 credits
3. Project (PRO1), 1,5 credit

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.