KD1080 Chemical Dynamics 6.0 credits

Kemisk dynamik

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

Establishment

Course syllabus for KD1080 valid from Spring 2020

Grading scale

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

Education cycle

First cycle

Main field of study

Chemistry and Chemical Engineering, Technology

Specific prerequisites

KE1140

Language of instruction

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

Intended learning outcomes

Course contents

- Molecular dynamics in general
- Kinetic theory of gases
- Diffusion and other transport phenomena
- Chemical reaction kinetics, molecular reaction mechanisms
- Photophysical processes
- Dynamical processes in biological systems

Examination

- TEN1 - Written exam, 4.5 credits, grading scale: A, B, C, D, E, FX, F
- LAB1 - Laboratory Work, 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.

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

Other requirements for final grade

1. Written examination 4,5 credits
2. Laboratory work 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.