



# CK2385 Modern Organic Chemistry, theory 7.5 credits

Modern organisk kemi, teori

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

## Establishment

Course syllabus for CK2385 valid from Autumn 2024

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

Chemical Science and Engineering

## Specific prerequisites

Bachelor's degree in engineering or in sciences including 75 credits in chemistry or chemical engineering, out of which at least 10 credits in organic chemistry. English B/6.

## Language of instruction

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

## Intended learning outcomes

- Explain basic chemo-, regio-, and stereoselective concepts and apply these in synthesis, as well as construct reactions pathways of complex organic compounds using retrosynthetic analysis.
- Analyze and summarize literature in the field of organic chemistry.

## Course contents

- Fundamental concepts in chemo-, regio-, and stereoselectivity
- Synthetic strategy and principles for selective chemical transformations
- Transition metal catalysis
- Frontier orbital-controlled reactions
- Retrosynthetic analysis

## Examination

- PRO1 - Project, 2.5 credits, grading scale: P, F
- TEN1 - Written exam, 5.0 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.

The final grade will be the same as for the examination (TEN1).

## 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.