



# KF2400 Material Synthesis 7.5 credits

## Materialsyntes

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

## Establishment

Course syllabus for KF2400 valid from Autumn 2019

## Grading scale

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

## Education cycle

Second cycle

## Main field of study

## Specific prerequisites

## Language of instruction

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

## Intended learning outcomes

After the course the student should be able to describe, evaluate and analyse material synthesis

- Explain synthesis of different materials
- Draw relevant structures and mechanisms for synthesis
- Analyse and propose relevant synthesis methods
- Evaluate and characterize the synthesized materials

## Course contents

The course covers principals of material synthesis with the focus on the synthesis of polymeric materials including the mechanisms and kinetics of different polymerization reactions and chemical characterization of the synthesized materials.

The laboratory work will give practical experience in synthesis of materials and evaluation and characterization of the synthesized materials with respect to their chemical structure.

## Examination

- ÖVN1 - Tutorials, 2.0 credits, grading scale: P, F
- TEN1 - Examination, 4.0 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

Active participation in all compulsory activities as specified in Course information.

## 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.