FKF3090 Polymer Chemistry 6.0 credits

Polymerkemi

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 FKF3090 valid from Autumn 2007

Grading scale

undefined

Education cycle

Third cycle

Specific prerequisites

KF2130 Polymer chemistry

Language of instruction

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

Intended learning outcomes

After the course has been passed, the student should be able to:

- From a desired chemical structure draw up a suitable synthesis path.
- Describe and predict the results from different modification processes.
- Value, understand and use the development in the field of polymer chemistry synthesis.

Course contents

Different polymerisation processes regarding chemical mechanisms and different steps, by-reactions and modifications which can occur are compared and discussed. The course aims at giving knowledge and tools for designing new polymers. This is an advanced course in polymer chemistry which will give deepening and general knowledge in the chemistry, structure, production and modification processes of polymers. This is not a continuous course like the polymer chemistry course for undergraduate students which aims at giving a comprehensive picture, but more of a methodology which will supplement and deepen the knowledge acquired from the basic course. The course will stimulate to critical examination and discussion about actual synthesis routes in the field, existing as well as new ones.

Course literature

Material distributed during lectures

Examination

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

Written examination (TEN1, 6 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.