FCK3327 Kinetics in Heterogeneous Systems 5.0 credits

Kinetik i heterogena system

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

Establishment

Course syllabus for FCK3327 valid from Autumn 2022

Grading scale

P, F

Education cycle

Third cycle

Specific prerequisites

Eligible for studies at the third-cycle level.

Language of instruction

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

Intended learning outcomes

Upon completion of the course the doctoral student should have the knowledge and ability to:

- describe and identify processes in heterogeneous systems
- analyze kinetics of processes in heterogeneous systems
- design experiments to determine reaction mechanisms and rate constants for processes in heterogeneous systems

Course contents

- Fundamental kinetics
- Reactions on surfaces
- Corrosion and dissolution
- Processes in macromolecular systems
- Photo- and radiation induced processes
- Experimental strategies and techniques

Examination

- TEN1 - Written home exam, 5.0 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

To pass the course, the student must participate in at least 80% of the tutorials (in total 5) and 80% of the lectures (in total 10). Participation in the oral presentation at the final seminar is mandatory.

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.