



KE200X Degree Project in Chemical Engineering, Second Cycle

30.0 credits

Examensarbete inom kemiteknik, avancerad nivå

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 KE200X valid from Spring 2025

Grading scale

P, F

Education cycle

Second cycle

Main field of study

Chemical Science and Engineering

Specific prerequisites

- All courses that are required for issuing the Degree of Bachelor should be completed .
- At least 67.5 credits in completed courses within a Master's program.
- A course in scientific methodology must be reported as completed with a passing grade.

The degree project should normally be carried out under the program's last semester. The School's Office of Student Affairs should check that the student fulfills the specific prerequisites. Exemption from the specific prerequisites can, upon assessment, be granted by the Director of First and Second Cycle Education.

Language of instruction

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

Intended learning outcomes

After completion of the course the student should be able to:

1. demonstrate knowledge of the chosen topic's scientific foundation and established background, in-depth insight into current research and development, as well as in-depth knowledge of related methods.
2. show the ability to holistically, critically and systematically search, collect and integrate knowledge, and to identify the need for further knowledge
3. show the ability to identify, analyze, assess, and handle complex phenomena, issues and situations, even with limited information
4. show the ability to plan and with adequate methods carry out advanced tasks within given time frames, and to evaluate this work
5. show the ability to clearly present and discuss conclusions and the underlying arguments with different groups both orally and in writing
6. show the ability to make assessments considering relevant scientific, social and ethical aspects
7. design and handle products, processes, methods, systems or technical solutions, taking into consideration human conditions and needs, and the society's aim for economically, socially and ecologically sustainable development
8. show the skills required to participate in research and development work, or to work independently in other advanced activities

Course contents

The work should include problems that give specialisation/broadening within the main subject. The degree project is carried out independently. The work is located at KTH or a workplace outside KTH. The student is supervised during the work by supervisors at both KTH and at the workplace if outside KTH.

Examination

- XUPP - Examination Question, 30.0 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.

Other requirements for final grade

- Approved written report
- Approved oral presentation
- Approved opposition

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.