KA101X Degree Project in Chemical Science and Engineering, First Cycle 15.0 credits

Examensarbete inom kemivetenskap, grundnivå

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 KA101X valid from Spring 2011

Grading scale

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

Education cycle

First cycle

Main field of study

Chemistry and Chemical Engineering,Technology

Specific prerequisites

Completed upper secondary education including documented proficiency in Swedish corresponding to Swedish B and English corresponding to English A. For students who received/will receive their final school grades after 31 Decem-

ber 2009, there is an additional entry requirement for mathematics as follows: documented proficiency in mathematics corresponding to Mathematics A.

And the specific requirements of mathematics, physics and chemistry corresponding to Mathematics E, Physics B and Chemistry A, and 120 university credits (hp), within the Degree Programme in Chemical Science and Engineering, or equivalent
In addition to these requirements is also required:
A total of 120 credits to be completed, of which a total of 90 credits from study year 1 and 2, which at least 50 credits from study year 1.

Language of instruction

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

Intended learning outcomes

The degree project should provide the student with insight into a current research or development project in chemistry and chemical engineering.

After approved course the student should be able to:

- Apply relevant knowledge and skills in chemistry and chemical engineering that he/she has gained during the studies at KTH on a defined problem
- Within given boundaries independently analyze and discuss assignments and solve extensive problems within chemistry and chemical engineering on a fundamental level
- Reflect, assess and critically review own and others´ scientific results
- Document and present the work with demands on structure, formalization and language correctness
- Identify the needs for further knowledge and take the responsibility for his/her knowledge development
- Perform an advanced literature search
- Discuss principles of business economics with both engineers as well as non-engineers
- Have an insight into the prerequisites that are needed for a modern leadership
- Write a correct CV and be aware of the requirements from the labour market concerning skills and abilities of an engineer

Course contents

The course covers seminars, information search, report writing, the fundamentals of business economics and leadership, as well as career coaching.

Course literature

The literature will be announced four weeks before course start.

Examination

- XUPP - Examination Question, 15.0 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.

Other requirements for final grade

Written report, oral presentation and opposition on another degree project report on first level. The report should preferably be written in English.

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.