



Course syllabus

Faculty of Health and Life Sciences

Department of Chemistry and Biomedical Sciences

4KE509 Projektkurs i kemi, 45 högskolepoäng

Project Work in Chemistry, 45 credits

Main field of study

Chemistry

Subject Group

Chemistry

Level of classification

Second Level

Progression

A1N

Date of Ratification

Approved by Faculty of Health and Life Sciences 2014-10-30

The course syllabus is valid from autumn semester 2015

Prerequisites

Chemistry 90 credits.

Objectives

At the end of the course the student should be able to:

- Independently plan and conduct scientific experiments or studies
- Formulate research questions
- Collect background information
- Adapt experimental methods to the scientific problems in question as well as the analytical methods and time available
- Present the data collected
- Create a thorough synthesis with conclusions from the student's own data and the results of other studies
- Evaluate the results and conclusions of the student's own study
- Present the results and conclusions of the study both orally and in writing.

Content

- Identifying problems and formulating research questions within a subject area of chemistry
- Designing experiments
- Conducting experiments or studies
- Data analysis and statistical processing of the data
- Interpretation of results and synthesis of the student's own results and those of others
- Compilation of results and conclusions in a written report
- Oral presentation of results and conclusions

Type of Instruction

The course is conducted in the form of a project with the support of a supervisor. Content, form and goals are specified before the start of the course in a project plan which is drawn up by the supervisor and which should be approved by the examiner and course coordinator. The course consists of the planning and completion of a study within the subject area of Chemistry. Participation in common seminars is compulsory.

Examination

The course is assessed with the grades A, B, C, D, E, Fx or F.

The grade A constitutes the highest grade on the scale and the remaining grades follow in descending order where the grade E is the lowest grade on the scale that will result in a pass. The grade F means that the student's performance is assessed as fail.

The examination consists partly of an assessment of the written report describing the experiments or studies conducted and partly of an oral presentation of the results and conclusions of the experiment/study.

The criteria for a passing grade are listed in the Expected Learning Outcomes (see above).

Course Evaluation

A written course evaluation is conducted at the end of the course; the results are archived by the department's administration and are communicated to the head of department.

Credit Overlap

This course cannot be part of a degree in combination with another course in which the content fully or partly correspond to the content of this course: 4KE009 Project Work in Chemistry 45 credits

Other

Grade criteria for the A–F scale are communicated to the student through a special document. The student is to be informed about the grade criteria for the course by the start of the course at the latest.

Required Reading and Additional Study Material

Required reading

Decided in conjunction with the supervisor and examiner.