Linnæus University

Jnr: 2014/3701-3.1.2

Course syllabus

Faculty of Health and Life Sciences
Department of Chemistry and Biomedical Sciences

4KE505 Projektkurs i kemi I, 15 högskolepoäng
Project Work in Chemistry I, 15 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
Bachelor degree including at least 90 credits in Chemistry, or equivalent.

Objectives

After completing the course the student should be able to
- Independently identify and delimit relevant scientific questions and problems, search and retrieve information from various databases with the help of different search engines, collate, analyze and critically evaluate the conclusions of published results of interest for the scientific problem;
- Give an account of and use specialized theoretical and practical knowledge, of which a greater part is within the research front of a chemical subject area;
- Based on current scientific knowledge, formulate hypotheses or scientific questions, design methods, plan and conduct experiments and/or take samples in order to solve a subject-specific problem;
- Communicate methods, background motives, conclusions and results to specialists and non-specialists:
- Demonstrate skills in experimental work
- Evaluate, analyze and draw conclusions from results obtained and
- Demonstrate a scientific approach to the project.

Content

The content of the course is designed by the student together with a supervisor. The title and content of the project course is presented in a project-specific plan and approved by the examiner. The content should provide advanced study in a subject area of chemistry. The course includes information searching, independent literature studies, delimitation and planning of various aspects of the project, collection and analysis of data, compilation and oral and written presentation.

Type of Instruction
The course can consist of independent study, seminars, laboratory work and field and data experiments. The type of instruction is decided by the student together with the supervisor and presented in a project-specific plan approved by the examiner.

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 project is presented orally at a seminar and in written form in a report. If several students collaborate the responsibility for the contests of the presentation should be divided between the students. In addition, it should be clearly indicated how each student has contributed to the presentation's various parts.

The number of examinations is limited to five. Revisions after examination should normally be submitted within 10 days after feedback is given.
The examination is based on a combined evaluation of individual assessments throughout the course plus the oral and written presentations.

The criteria for a passing grade are listed in the Objectives (see above).

Course Evaluation
A written course evaluation is conducted at the end of the course. The result is compiled in a course report which is archived by the department's administration. The result of the evaluation and any changes made are communicated to the head of department and presented to the students the next time the course is run.

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

Decided by the examiner in consultation with the supervisor and student.