



DEPARTMENT OF CHEMISTRY AND MOLECULAR BIOLOGY

KET930 Chemistry, Project, 30 credits

Kemi, tillämpningskurs, 30 högskolepoäng

Second Cycle

Confirmation

This course syllabus was confirmed by Department of Chemistry and Molecular Biology on 2015-01-19 and was last revised on 2019-03-27 to be valid from 2019-03-27, spring semester of 2019.

Field of education: Science 100%

Department: Department of Chemistry and Molecular Biology

Position in the educational system

The course is classified at the level 90-120 credits for Degree of Master. The course can be read as a free-standing course.

The course can be part of the following programmes: 1) Atmosphere, Climate and Ecosystems, Master's Programme (N2ACE), 2) Chemistry and learning, Master's Programme (N2KOL), 3) Master's Programme in Organic and Medicinal Chemistry (N2KEL), 4) Master's Programme in Chemistry (N2KEM), 5) Bachelor of Science Programme in Medicinal Chemistry (N1LMK) and 6) Bachelor of Science Programme in Chemistry (N1KEM)

Main field of studies

Chemistry

Chemistry with Specialization in Organic and Medicinal Chemistry

Specialization

A1N, Second cycle, has only first-cycle course/s as entry requirements

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Entry requirements

For admission to the course, passed result on completed courses worth 120 credits in technology and/or natural sciences are required, including passed courses in chemistry and/or chemical engineering worth at least 30 credits.

Learning outcomes

The student should, with support from their supervisor, carry out an independent project and thereby train their ability to apply the accumulated knowledge they acquired during their education. On completion of the course Chemistry, project, the student is expected to account for the independently completed work, including a scientific analysis, in the form of a written report and an oral presentation at a seminar.

Knowledge and understanding

- **document** both a broad knowledge of chemistry/medicinal chemistry in general and an advanced understanding in the field of chemistry/medicinal chemistry relevant for the thesis,
- **relate** their own work to current research questions.

Competence and skills

- in an independent way **define the scope** for their work, **handle** the problems that arise and **hold a critical distance** to the obtained results,
- **hold** the agreed **deadlines** in an acceptable way,
- **adapt** both the report and the oral presentation to the chosen target group: a science student at the end of their undergraduate education.

Judgement and approach

- both in writing and orally **put** his own work **in relation** to general questions about the role of knowledge in society and the responsibility of a chemist/medicinal chemist for how it is used.

Course content

The course consists of an independent experimental or theoretical work for which the student themselves should search supervision from one of the teachers of department or, after approval from department, an external supervisor. The supervisor should give an introduction to and overview over the field of chemistry that concerns the independent work. The literature that constitutes a background for the project should be studied. The student should by means of appropriate experiments and/or calculations solve the problems in the project. The project should require one semester's full-time studies including report writing and presentation. The result of the project should be presented in the form of a monograph as well as an oral presentation.

Form of teaching

See above.

Language of instruction: Swedish and English

Assessment

The examination takes place through the oral and written presentations. To pass the whole course, passed result on the written and oral presentations of the independent work as well as any other compulsory assignments are required. For a student who has not passed at the regular examination, additional examination sessions are offered.

If a student who has failed twice on the same part of the examination wants to change the examiner before the next examination session, such request should be submitted in writing to the department and be approved if there are not special causes against this.

Grades

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U). Regarding application of the ECTS scale for grade please see decision 28/05/2007, diary nr G 8 1976/07.

Course evaluation

A student who participates in or have completed the course should be given the opportunity to anonymously express experiences of and views in the course in a course evaluation.