

Syllabus

for course at advanced level

Materials Chemistry, Degree Project
Materialkemi, självständigt arbete

**60.0 Higher Education
Credits**
60.0 ECTS credits

Course code:	KZ9005
Valid from:	Spring 2010
Date of approval:	2009-12-21
Department	Department of Materials and Environmental Chemistry
Main field:	Chemistry
Specialisation:	AXX - Second cycle, in-depth level of the course cannot be classified

Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University.

Prerequisites and special admittance requirements

Course structure

Examination code	Name	Higher Education Credits
HELA	Materials Chemistry, Degree Project	60

Course content

The project work is intended to provide experience in and enhanced knowledge of scientific standards and research work in materials chemistry. Central aspects are planning, implementation and reporting of the scientific research. Training in literature search, writing a scientific report in English, and oral presentation of scientific results as seminars is furthermore comprised. The course provides knowledge and skills that form a useful foundation for both postgraduate studies and a professional career.

Learning outcomes

It is expected that the student after taking the course will be able to:

- Demonstrate experimental/theoretical competence (planning, implementing and documenting experimental/theoretical work).
- Evaluate and analyze obtained results and draw correct conclusions from them.
- Demonstrate a valid scientific attitude to the project.
- Read and understand relevant literature, and utilize theory needed for the project.
- Carry out a goal-oriented literature search.
- Compile and write a scientific report in English.
- Orally report and present research results.

Education

The degree project including the laboratory work is carried out within the various research groups at the divisions of inorganic or structural chemistry or at an external research/development laboratory. The education consists of compulsory seminars and independent work directed by a principal supervisor or assistant supervisor.

After consultation with the relevant teacher, an examiner may rule that a student is not obliged to participate in certain compulsory seminars, if there are special grounds for this

Forms of examination

a. Measurement of knowledge takes place through:

- Written or oral presentation of scientific work and by evaluation of experimental skill.

b. Grading is carried out according to a 7-point scale related to learning objectives:

A = Excellent, B = Very Good, C = Good, D = Satisfactory,

E = Sufficient Fx = Fail F = Fail.

c. Grading criteria for the course will be distributed at the start of the course.

d. A minimum grade of E is required to pass the course, together with:

- Participation in compulsory seminars

e. Students who fail to achieve a pass grade in an ordinary examination have the right to take at least further four examinations, as long as the course is given. The term “examination” here is used to denote also other compulsory elements of the course. Students who have achieved a pass grade on an examination may not retake this examination in order to attempt to achieve a higher grade. Students who have failed to reach a pass grade on two occasions have the right to request that a different teacher be appointed to set the grade of the course. A request for such appointment must be sent to the departmental board.

Interim

Students may request that the examination is carried out in accordance with this syllabus even after it has ceased to apply. This right is limited, however, to a maximum of three occasions during a two-year-period after the end of giving the course. A request for such examination must be sent to the departmental board.

Required reading

The literature is constituted by scientific publications and reports within the relevant field, found by the student through literature search, and literature distributed by the principal or assistant supervisor.