

Trans-national Mobility in Bachelor and Master Programmes

Masters programme in Materials Chemistry

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The Masters programme in Materials Chemistry build on our strength in solid state chemistry, which is utilized in courses that introduce the students to versatile materials synthesis strategies. The design of nano-structured materials from novel combinations of molecular building blocks, templating molecules, nano-particles and various functional molecules combined with an understanding of the structure-property relations at all length-scales is of pivotal importance. In all courses their are practical parts such as experimental project works.

We accept 20 students in this programme per year and at least 5 mobile students in each course. Students who wants to go abroad can chose between a large number of universities with which we have agreements with. In addition the network of the professors/senior lectures at the department are available for the mobile students.

Goal with mobility

Strengthen the competitiveness of our students in the search for positions after exam.

Incoming students are an source of inspiration for our teachers and students and give us the possibility to benchmark our courses/research

Mobility window

The mobility window is 60 ECTS and includes courses at advanced level as well as internships. The mobility can take place within exchange programs or as free mover. Internship should be presented both written and orally upon return.

Those who have gone abroad so far have made their degree project at private companies in e.g. England or through Erasmus program.

Strength

Our advanced courses are given in English and it easy to communicate in English in Sweden.

Very strong connection to research in materials chemistry.

The research groups at the department have a large contact net to be used in the mobility of the students.

Weakness

We have very few native students in the program and their interest in going abroad is limited.

Program outlay

The program runs for 2 years (4 semesters, 120 ECTS) and ends with a degree project which could be 30, 45 or 60 ECTS credits. The semesters run from end of August to mid of January and mid of January to beginning of June. The mobility window is 60 ECTS after the first semester. It can include both courses and internships abroad.

- **Semester 1 - Compulsory courses**

- Introduction to materials chemistry 15 ECTS
- Structure and properties of solid materials 7.5 ECTS
- Structural analysis with diffraction 7.5 ECTS

- **Semester 2 - Eligible courses such as:**

- Bio-ceramics 7.5 ECTS
- Soft matter 7.5 ECTS,
- Modelling in Materials chemistry 7.5 ECTS,
- NMR in materials chemistry 7.5 ECTS,
- Porous materials 7.5 ECTS

- **Semester 3 - Eligible courses such as:**

- Introduction to electron microscopy 7.5 ECTS
- Advanced transmission electron microscopy 7.5 ECTS
- Management 7.5 ECTS
- *Degree project 30/45/60 ECTS*

- **Semester 4 - Eligible courses or**

- *Degree project (30/45/60 ECTS)*

The Masters programme in Materials chemistry at Stockholm university provides a solid background in inorganic materials chemistry. All courses are given in English. The students are encouraged to study abroad.