

Education plan

for

Master's Programme in Environmental Chemistry
Masterprogram i miljökemi

120.0 Higher Education
Credits
120.0 ECTS credits

Programme code:	NMKEO
Valid from:	Autumn 2011
Date of approval:	2010-10-27
Department:	Department of Environmental Science

Decision

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

Prerequisites and special admittance requirements

Programme structure

The programme comprises of two compulsory courses (30 higher education credits) and a degree project of at least 30 higher education credits, and additional optional courses up to 120 higher education credits.

The programme is closely related to research at the department and is designed to cover most specializations within environmental chemistry.

The programme provides knowledge and skills that form a useful foundation for both postgraduate studies and a professional career, both domestically and abroad.

Goals

For a Master's degree the student must demonstrate:

- Knowledge and understanding of the major field of Environmental Chemistry, including broad knowledge within the field as well as appreciable in-depth knowledge within certain parts of the field and in-depth insight into topical R&D work.
- In-depth knowledge of methodology in environmental chemistry.
- Ability to integrate knowledge in environmental chemistry critically and systematically in order to analyze, evaluate and handle complex phenomena, issues and situations in environmental chemistry, even with limited information.
- Ability to critically, independently and creatively identify and formulate problems of relevance to environmental chemistry, to plan and, using adequate methods in environmental chemistry, carry out advanced tasks within given time limits and thereby contribute to the development of knowledge, and also to evaluate this work.
- Ability to, orally and in writing, in both national and international settings, account for and discuss conclusions and the knowledge and arguments supporting these conclusions, in interaction with different groups.
- Skills required for participation in R&D work or for independent work in other advanced functions.
- Ability to make evaluations within the field of environmental chemistry, with regard to relevant scientific, societal and ethical aspects and to demonstrate awareness of ethical issues in R&D work.
- Insight into the possibilities and limitations of science, its societal role, and human responsibility for its use.
- Ability to identify the need for additional knowledge and to assume own responsibility for competence development.

Courses

Compulsory courses;

Introduction to environmental chemistry, FC, 15 higher education credits, KZ4007

Environmental chemical analysis, SC, 15 higher education credits, KZ7007

Degree project in environmental chemistry, SC, 30/45/60 higher education credits, KZ9018/19/20

Optional courses within the field;

The choice of optional courses is decided by the department board. The list of all optional courses is updated before the start of each academic year. When a programme begins, there will be a list showing a minimum choice of optional courses with guaranteed education during the programme period.

Optional courses within or beyond the main field; at most 15 higher education credits.

Degree

Master's degree.

Misc

Students who have been admitted to the programme but not completed it within the two planned years of study may request that they be allowed to complete the programme even if the study programme has ceased to apply. The restrictions stated in the syllabus of the courses comprised in the education are then applicable.