Department of Environmental Science

Stockholm University

Education plan

for

Master's Programme in Environmental Science - Environmental Toxicology and Chemistry
Masterprogram i miljövetenskap - miljökemi och miljötoxikologi

120.0 Higher Education Credits
120.0 ECTS credits

Programme code:	NETCO
Valid from:	Autumn 2019
Date of approval:	2018-09-12
Department:	Department of Environmental Science

Decision

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

Prerequisites and special admittance requirements

To be admitted to the programme, knowledge equivalent to a Bachelor's degree in the Natural Sciences, Mathematics or Engineering is required, including at least 15 higher education credits in Mathematics or Statistics and 30 credits in Chemistry. Also required is knowledge equivalent to Swedish upper secondary course English B or equivalent to one of the following tests; Cambridge CPE and CAE: Pass, IELTS: 6.0 (with no part of the test below 5.0), TOEFL (paper based): 550 (with minimum grade 4 on the written test part), TOEFL (computer based): 213, TOEFL (internet based): 79.

Programme structure

The programme consists of a compulsory part of 60 higher education credits (HECs), an optional part of 30 higher education credits and a degree project of 30, 45, or 60 higher education credits.

Goals

For a Degree of Master in Environmental Science (Two Years) students must
-demonstrate knowledge and understanding in their main field of study, including both broad knowledge in the field and substantially deeper knowledge of certain parts of the field, together with deeper insight into current research and development work; and - demonstrate deeper methodological knowledge in their main field of study.
-demonstrate an ability to critically and systematically integrate knowledge and to analyse, assess and deal with complex phenomena, issues and situations, even when limited information is available; - demonstrate an ability to critically, independently and creatively identify and formulate issues and to plan and, using appropriate methods, carry out advanced tasks within specified time limits, so as to contribute to the development of knowledge and to evaluate this work; - demonstrate an ability to clearly present and discuss their conclusions and the knowledge and arguments behind them, in dialogue with different groups, orally and in writing, in national and international contexts; and - demonstrate the skill required to participate in research and development work or to work independently in other advanced contexts.
-demonstrate an ability to make assessments in their main field of study, taking into account relevant scientific, social and ethical aspects, and demonstrate an awareness of ethical aspects of research and development work; - demonstrate insight into the potential and limitations of science, its role in society and people's responsibility for how it is used; and - demonstrate an ability to identify their need of further knowledge and to take
responsibility for developing their knowledge.

Courses

Compulsory courses:
MI7014 Large Scale Challenges to the Climate and the Environment,
MI7015 Toxicology for Environmental Scientists,
MI7017 Environmental Organic Chemistry and Modeling,
MI8016 Research Trends in Toxicology,
MI8022 Risk assessment and regulation of Chemicals,
MI8021 Environmental Field Studies,
MI8022 Risk Assessment and Regulation of Chemicals.

Degree project of 30, 45, or 60 higher education credits.

Degree

This programme leads to a Master of Science focusing on Envinmental Toxicology and Chemistry.

Misc

Students who have been admitted to the programme but not completed it during the scheduled two/three years can request to complete the program even after the programme syllabus no longer applies. In such cases, the limitations stated in the course syllabus apply.