

# Syllabus

for course at advanced level

**Risk Assessment and Regulation of Chemicals**  
**Riskbedömning och kemikalielagstiftning**

**7.5 Higher Education  
Credits**  
**7.5 ECTS credits**

<b>Course code:</b>	MI8022
<b>Valid from:</b>	Spring 2020
<b>Date of approval:</b>	2018-10-01
<b>Department</b>	Department of Environmental Science
<b>Main field:</b>	Environmental Science
<b>Specialisation:</b>	A1F - Second cycle, has second-cycle course/s as entry requirements

## Decision

### Prerequisites and special admittance requirements

Admission to the course requires knowledge equivalent to Large Scale Challenges to Climate and Environment, 15 credits (MI7014), Toxicology for Environmental Scientists, 7.5 credits, (MI7015) and English 6.

### Course structure

Examination code	Name	Higher Education Credits
HELA	Risc	7.5

### Course content

a. The course explores the general principles of regulatory risk assessment of chemicals. Concepts that will be covered include: Hazard assessment, dose-response, exposure assessment, and risk characterization. An overarching theme will be the use of different types of scientific data in risk assessment and how data are evaluated and weighed in the process. In addition the course will introduce the system for regulating chemicals within the European Union and internationally.

### Learning outcomes

Upon completion of the course, students are expected to be able to:

- Demonstrate understanding of the methodology and principles of hazard and risk assessments of chemicals
- Demonstrate understanding of how scientific data is assessed, valued and used for hazard and risk assessment of chemicals
- Demonstrate understanding of the chemicals regulation in Europe and international agreements and treaties
- Critically examine a risk assessment.

### Education

The education consists of lectures, project work, seminars. Participation in project work and seminars and any associated integrated instruction is compulsory. In the event of special circumstances, the examiner may, after consultation with the teacher concerned, grant a student exemption from the obligation to participate in certain compulsory instruction.

### **Forms of examination**

a. The course is examined as follows: Knowledge assessment takes the form of a written exam and oral presentation and a written report.

b. Grades will be set according to a seven-point scale related to the learning objectives of the course:

A = Excellent

B = Very good

C = Good

D = Satisfactory

E = Adequate

Fx = Fail, some additional work required

F = Fail, much additional work required

c. The grading criteria will be distributed at the beginning of the course.

d. In order to pass the course, students must receive a passing grade and participate in all mandatory instruction.

e. Students who receive a failing grade on a regular examination are allowed to retake the examination as long as the course is still provided. The number of examination opportunities is not limited. Other mandatory course elements are equated with examinations. A student who has received a passing grade on an examination may not retake the examination to attain a higher grade. A student who has failed the same examination twice is entitled to have another examiner appointed, unless there are special reasons to the contrary. Such requests should be made to the department board.

The course includes at least two examination opportunities (if necessary: for each course unit) per year when the course is given. At least one examination opportunity will be offered during a year when the course is not given.

f. Students awarded the grade Fx are given the opportunity to improve their grade to E. The examiner decides the supplementary assignments to be performed and the pass mark criteria. The supplementary assignments will take place before the next examination session.

### **Interim**

Students may request that the examination be conducted in accordance with this course plan even after it has ceased to be valid. However, this may not take place more than three times over a two year period after course instruction has ended. Requests must be made to the departmental board. The provision also applies in the case of revisions to the course plan (and the revisions of the course literature).

### **Misc**

The course is part of Master's programme in Environmental Science focusing on Environmental Toxicology and Chemistry but can also be read as a separate course.

### **Required reading**

The course literature is decided by the department board and published on the Department of Environmental Science and Analytical Chemistry's website at least two months before the start of the course.