

# Syllabus

for course at advanced level

**Air Quality Outdoors and Indoors**  
**Luftkvalitet: utomhus och inomhus**

**15.0 Higher Education  
Credits**  
**15.0 ECTS credits**

<b>Course code:</b>	MI7007
<b>Valid from:</b>	Autumn 2014
<b>Date of approval:</b>	2014-03-10
<b>Department</b>	Department of Environmental Science
<b>Main field:</b>	Environmental Science
<b>Specialisation:</b>	A1N - Second cycle, has only first-cycle course/s as entry requirements

## Decision

### Prerequisites and special admittance requirements

To be eligible you must have knowledge corresponding to a Bachelor of Science, or its equivalent, including at least 90 ECTS in one of the natural sciences. Also required is knowledge equivalent to Swedish upper secondary school course English B.

### Course structure

Examination code	Name	Higher Education Credits
HELA	Air Quality Outdoors and Indoors	15

### Course content

a. The course provides knowledge about air quality and the presence of air pollutants in different environments both indoors and outdoors.

b. The course covers:

- \* the predominant sources of outdoor air pollution, in workplaces, homes and public buildings
- \* how factors such as transformation and deposition of air pollutants and also ventilation affects air quality
- \* health and environmental effects of air pollutants
- \* societal costs and policy instruments to control and improve air quality and reduce environmental and health impacts of air pollution

### Learning outcomes

After taking the course the student should:

- \* account for the presence of air pollutants in outdoor, indoor and workplace environments and explain how different fundamental factors affect air quality.
- \* describe and analyze the data that are needed to elucidate the causes of an air quality problem
- \* suggest how the air quality in a specific situation could be improved

\* contribute to discussions regarding application of directives and regulations for air quality and the significance of air quality for human health

### **Education**

The teaching consists of lectures, exercises, a project work, presentations and written assignments.

Participation in exercises, project work, presentations and assignments are mandatory. If special circumstances exist, an examiner may, after consultation with the relevant teacher allow the student to be not obliged to participate in certain compulsory tasks.

### **Forms of examination**

- a. The course is assessed through written and oral presentation of the project work, and a written exam
- b. Grades for the written examination:

A - Excellent  
B - Very good  
C - Good  
D - Satisfactory  
E - Sufficient  
FX - Fail  
F – Fail

- c. For the project work the grade is only pass or fail.
- c. The grade criteria are provided at the start of the course.
- d. To pass the course requires at least grade E and participation in all compulsory parts of the course
- e. Students who have failed in the regular examination are entitled to take the exam at least four times as long as the course is offered. This includes all compulsory parts. Students who have passed an examination may not be retake exams for higher grades. Students who fail an examination twice have the right to request a different teacher appointed to determine the grade. Such requests should be made to the Board of the Department.

### **Interim**

Students may request that the examination is performed under this syllabus even after it has ceased to be valid up to three times during the two years after the course was terminated. Such requests should be made to the Board of the Department.

### **Misc**

The course could be a part of the Master programme in Environmental Science, but may also be taken as an independent course.

### **Required reading**

Will be decided by the Board of the Department and described in an appendix to the syllabus.