

# Syllabus

for course at advanced level

**Atmospheric Sciences, Oceanography and Climate, Degree Project**  
**Meteorologi, oceanografi och klimat, självständigt arbete**

**60.0 Higher Education  
Credits**  
**60.0 ECTS credits**

|                          |   |
|--------------------------|---|
| <b>Course code:</b>      | MO9003  |
| <b>Valid from:</b>       | Autumn 2009   |
| <b>Date of approval:</b> | 2008-09-01  |
| <b>Department</b>        | Department of Meteorology   |
| <b>Subject</b>           | Earth Science and Physical Geography                                  |
| <b>Specialisation:</b>   | AXX - Second cycle, in-depth level of the course cannot be classified |

## Decision

This syllabus has been approved by the Board of the Faculty of Science at Stockholm University 2008-09-01.

## Prerequisites and special admittance requirements

Knowledge corresponding to a Bachelor's degree, as well as 30 HECs Second level courses in an area relevant for the project. Also required is knowledge equivalent to Swedish upper secondary school 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.

## Course structure

| Examination code | Name  | Higher Education Credits |
|------------------|---|--------------------------|
| HELA             | Atmospheric Sciences, Oceanography, Climate, Degree Project | 60                       |

## Course content

The course consists of independently carrying out a research project or investigative project formulated together with an advisor. The course provides further knowledge about scientific methods. Central moments are planning, performing and reporting the project.

## Learning outcomes

- After taking this course the student should be able to
- develop, concretize and plan a project, starting from an initial idea
  - put the project into a scientific perspective
  - evaluate, analyse and critically interpret a data set
  - perform a goal-oriented scientific literature search
  - demonstrate an independent and scientific mode of work, where earlier acquired knowledge is used
  - write a scientific report in English
  - report and present scientific results orally
  - carry out a project within the allotted time

## Education

The teaching consists of a project carried out independently under the supervision of one or more teachers at the Department of Meteorology, and/or an external supervisor with research experience.

**Forms of examination**

a) Examination is done by oral and written presentation of the Degree project. b) Grading is done on a seven step scale: A=excellent B=Very good C=Good D=Satisfactory E=Sufficient F=Unsatisfactory Fx=Entirely unsatisfactory. c) The grading criteria are handed out at the beginning of the course. d) For passing the course, at least grade E is required. e) Students that do not pass the regular examination have a right to attempt at least for further examinations as long as the course is given. As "examination" are understood also other compulsory parts of the course. Students that have passed an examination are not allowed to attempt another examination in order to receive a higher grade. Students that have failed an examination twice have a right to demand that another teacher is appointed to determine the grade. The request for this should be directed to the Board of the department.

**Interim**

Students may demand that the examination is performed according to this syllabus even after it has ceased to be valid. However, this may be done at most three times during the two years after the course was last given. The request for this should be directed to the Board of the department.

**Limitations**

The course may not be included in a degree together with Atmospheric Sciences, Oceanography and Climate, Degree Project, 30 HEC, MO9001, Atmospheric Sciences, Oceanography and Climate, Degree Project, 45 HEC, MO9002, Examensarbete i meteorologi, 20p, ME4130, Examensarbete i kemisk meteorologi, 20p ME4160, or Examensarbete i fysisk oceanografi, 20p, ME4170.

**Misc**

The course is a part of the Master's programme in Meteorology, Oceanography and Climate, but may also be taken as an individual course.

**Required reading**

The literature is based on scientific publications and reports in the relevant field obtained by the student by literature search as well as literature provided by the advisor.