Department of Geological Sciences

Stockholm University

Syllabus

for course at advanced level

Climate science, Degree Project
Klimatvetenskap, självständigt arbete

45.0 Higher Education Credits
45.0 ECTS credits

Course code:	GG9201
Valid from:	Spring 2020
Date of approval:	2019-11-11
Department	Department of Geological Sciences
Main field:	Climate Science
Specialisation:	A2E - Second cycle, contains degree project for Master of Arts/Master of Science (120 credits)

Decision

This syllabus was approved by the Faculty of Science at Stockholm University 2019-1-11

Prerequisites and special admittance requirements

For admission to the course, knowledge equivalent to a Bachelor's degree is required, which will include at least 60 credits in climate science at advanced level. English 6.

Course structure

Examination code	Name	Higher Education Credits
HELA	Climate science, Degree Project	45

Course content

The course aims to provide experience and knowledge of scientific work in climate science within one of the following specializations: meteorology, natural geography, geological sciences, environmental science or social-ecological resilience to sustainable development. The course consists of an independent project that aims to provide experience and in-depth knowledge of science and scientific work within the field of climate science. Central steps are planning, implementation and reporting of the scientific investigation. The course provides training in searching the literature, writing of a scientific report, and oral presentation.
The independent project can be done at any of the participating departments, depending on the chosen specialization within climate science

Learning outcomes

After completing the course, the student will be able to:
• plan, implement, document and, within the specified time, finalize the experimental, field, modelling, and/or theoretical work
• demonstrate experimental, field, modelling, and/or theoretical skills
• evaluate, analyse and draw conclusions from the results obtained
• approach the project in a scientific manner
• read and understand relevant primary literature and apply the necessary theory for the implementation of the project
• conduct a literature review
• compile and write an independent project
• orally present the results of the project

Education

The teaching mainly consists of independent work under the supervision of the principal supervisor. The student is entitled to at least 30 hours of supervision, where individual supervision must be at least one third of the time. If a student does not finish in time with the degree project during the course period, the student will receive guidance within the reasonable limits until the degree project is completed. In special circumstances, the student is entitled to change the supervisor. Requests for this must be made to the department board.
The course is taught in English.

Forms of examination

a. Knowledge assessment takes the form of written and oral presentation of scientific work. Late submission of the independent work has consequences for the course's final grade, which is further described in the course's grading criteria. The examiner has the opportunity to decide on adapted or alternative examinations for students with disabilities. Examination takes place in English.
b. The course has no compulsory teaching.
c. 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
d. The course's grading criteria are awarded at the start of the course.
Late submission of the independent project has consequences for the course's final grade, which is described in more detail in the course's grading criteria.
Basic assessment criteria are:
1. Understanding the proposed task
2. Implementation of the experiments / field work / the theoretical task
3. Knowledge of the theoretical background
4. Interpretation and analysis of results
5. Independence
6. Ability to keep the fixed schedule for work
7 Presentation - oral presentation
8. Presentation - written report
d. To pass the course, the student must obtain grade E or higher.
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.
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 examination be conducted in accordance with this syllabus even after it has ceased to apply, but not more than three times during a two-year period after the course has been discontinued. The request for this shall be made to the Department Board. The provision also applies when revising the syllabus and revising the course literature.

Misc

The course may include field elements that may entail costs for the student. The course is part of a master's program in climate sciences, but can also be read as a free standing course.
The following departments are involved in the programme: Department of Geological Sciences, Department of Physical Geography, Department of Meteorology, Department of Biological Education andDepartment of Environmental Science and Analytical Chemistry

Required reading

The literature is based on scientific publications and reports in the relevant subject area found by students in literature searches and literature distributed by the main tutor and/or assistant tutor.