

Department of Physical Geography

Syllabus

for course at advanced level Polar and Alpine Environments and Climate Change Polara och alpina miljöer och klimatförändringar

15.0 Higher Education Credits 15.0 ECTS credits

Course code:
Valid from:
Date of approval:
Department

GE7079 Autumn 2019 2019-01-14 Department of Physical Geography

Main field: Specialisation: Physical Geography and Quaternary Geology A1N - Second cycle, has only first-cycle course/s as entry requirements

Decision

This syllabus has been approved by the Board of Science at Stockholm University 2019-01-14.

Prerequisites and special admittance requirements

For admission to the course, knowledge is required equivalent to 90 ECTS credits in biology-earth sciences, geography, Earth sciences.

English B/English 6 or the equivalent.

Course structure

Examination code	Name	Higher Education Credits
DEL1	Excursion	3
DEL2	Theory	12

Course content

a. The course addresses the climate system, glaciology and geomorphology. The main focus in on climate and environmental change during the Quaternary from a Scandinavian perpective.

b. The course consists of the following course units:

- 1. Excursion (Exkursion), 3 credits
- 2. Theory (Teori), 12 credits

Learning outcomes

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

• describe the function of the global climate system and natural and anthropogenic causes for climate change (Course unit 2)

• analyse glacial environments and processes (Course units 1 and 2)

- describe landforms and explain processes for their formation (Course units 1 and 2)
- describe and explain Quaternary climate and environmental evolution (Course units 1 and 2)
- explain the interaction between climate processes, geomorphological processes and glacial processes in Scandinavia during the Quaternary (Course units 1 and 2)

Education

Instruction consists of field trips, lectures, seminars, exercises and project work.

Participation in field trips, seminars, exercises and project work 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.

Instructions are in English.

Forms of examination

a. The course is examined as follows: Knowledge assessment takes the form of:

- written presentations (Course unit 1)
- written and oral presentations (Course unit 2)

Examination is in English.

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 requiredF = Fail, much additional work required

The course unit 1 will be graded according to a two-point scale: Pass (G) or Fail (U).

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 on all course units 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 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. There is no facility to improve the grade Fx to a pass grade in this course.

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.

Limitations

The course may not be included in examinations in combination with course Quaternary Climate History (GE7056), Climate and Landscape (GE7072) or equivalent.

Misc

The course is part of Master's Programme in Polar Landscapes and Quaternary Climate but can also be read as a separate course. The course include teaching in the field, which may entail additional cost for the student.

Required reading

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