

Syllabus

for course at advanced level

Quaternary Climate and Environmental Reconstructions
Kvartära klimat- och miljörekonstruktioner

15.0 Higher Education Credits
15.0 ECTS credits

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|--------------------------|---|
| Course code: | GE7076 |
| Valid from: | Autumn 2017 |
| Date of approval: | 2017-05-15 |
| Department | Department of Physical Geography |
| Main field: | Physical Geography and Quaternary Geology |
| Specialisation: | 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 2017-05-15.

Prerequisites and special admittance requirements

Admission to the course requires knowledge equivalent to at least 90 ECTS credits in biology-earth sciences, geography, Earth sciences. Also required is knowledge equivalent to Swedish upper secondary school course English B/English 6.

Course structure

| Examination code | Name | Higher Education Credits |
|------------------|--------------------|--------------------------|
| DEL1 | Theory | 5 |
| DEL2 | Practical analysis | 10 |

Course content

a. The course deals with methods for biological, physical and chemical analyses of natural archives for reconstructing climate and environmental changes during the Quaternary. Both qualitative and quantitative methods will be covered.

b. The course consists of the following course units:

1. Theory 5 credits
2. Practical analysis 10 credits

Learning outcomes

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

- be able to describe general principles of and theories behind selected biological, physical and chemical analyses, and compile analysis results of climate and environmental changes during the Quaternary (Course unit 1)
- be able to carry out some biological, physical and chemical analyses, and interpret and evaluate the results of qualitative and quantitative analytical methods (Course unit 2)
- perform statistical treatment of data for climate and environmental reconstructions during the Quaternary (Course unit 2)

Education

Instruction consists of lectures, laboratory work, seminars and exercises.

Participation in laboratory work, seminars and exercises 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 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 on all course units and participate in all mandatory instruction. The final grade on the course is determined by weighting the grades from all course units, where each grade is weighted in relation to the scope of the course unit.

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. 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.

Limitations

The course may not be included in examinations in combination with course Natural Archives for Reconstruction of Climate and Environmental Change (GE7016) or equivalent.

Misc

The course is offered as a separate course.

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.