



Faculty of Science

GEOL02, Geology: Bachelor's Degree Project, 15 credits *Geologi: Examensarbete för kandidatexamen, 15 högskolepoäng* **First Cycle / Grundnivå**

Details of approval

The syllabus was approved by Study programmes board, Faculty of Science on 2022-06-13 to be valid from 2022-06-13, spring semester 2023.

General Information

The course is a compulsory first-cycle course for a degree of Bachelor of Science in Geology.

Language of instruction: Swedish

The course is given in Swedish but supervision can take place in English if this is desired by the student or a teacher. The degree project can be written in English if the student prefers.

Main field of studies

Geology

Depth of study relative to the degree requirements

G2E, First cycle, has at least 60 credits in first-cycle course/s as entry requirements, contains degree project for BA/BSc

Learning outcomes

The overall aim of the course is that the student shall be able to carry out an independent scientific project within a well-defined geological subject area.

Knowledge and understanding

On completion of the course, the students shall be able to:

- describe, use and give an account of advanced knowledge in a geological subject or research domain, including its disciplinary foundation,
- use and apply geological methods,
- describe and account for a specialisation within a subarea of geology,
- at a general level account for current research issues within a subarea of geology.

Competence and skills

On completion of the course, the students shall be able to:

- search, collect, evaluate and critically interpret information of relevance for a geological problem,
- independently formulate, appropriately delimit and solve problems within a subarea of geology through knowledge and skills acquired during previous courses of the Bachelor's programme,
- set up a project plan for individual work and carry out assignments within given time frames,
- independently carry out a project,
- Carry out a scientific literature search of relevance for the degree project using some of the most widely used databases,
- orally and in writing present the completed project at a relevant scientific level,
- Carry out a scientific discussion as an author of a thesis during oral presentations.

Judgement and approach

On completion of the course, the students shall be able to:

- evaluate and compile scientific information and critically interpret geological data,
- evaluate the results of their degree project in relation to the research frontier within the relevant subarea geology,
- identify and evaluate scientific, societal and ethical aspects of geology,
- identify and discuss the role of geology in society and humanity's responsibility for how it is used,
- identify and discuss their own need of additional knowledge and different ways of developing their skills in geology or other subjects.

Course content

The degree thesis is an individual assignment. The student chooses a subject area and a task in consultation with one or more appointed supervisor(s). As a part of the thesis work, the student shall solve a well-constrained assignment according to an established time plan. Project planning, literature studies, as well as critical assessment, interpretation and evaluation of collected data are included in the thesis work. Field and laboratory work with application of scientific analysis methods may be included.

The thesis work can also be carried out as a collaborative project with external departments, universities, organisations or companies. This is common for degree projects with applied specialisations and with partly external supervision. It is the student's responsibility to contact the external partner.

The course includes a preparatory component focussed on report writing, writing strategies, popular and scientific writing, source management, literature search, research ethics and computer-based reference management. During the course, a half-time seminar is carried out, and the course is concluded by oral presentations during one or more joint sessions.

Course design

The degree project is carried out independently but with continuous supervisor contact. The teaching consists of lectures and seminars. The individual thesis work includes literature studies, possibly supplemented by practical work in the field and/or

laboratory. Participation in seminars, including the half-time seminar, and the concluding presentations is compulsory.

Assessment

Assessment is based on:

- a written report in Swedish or English,
- an oral presentation at a public seminar,
- a scientific summary in English, a popular summary and a poster.

Examination is carried out by an examiner appointed among the teachers at the department in consultation with the supervisor.

Passed degree projects must be registered in the Lund University portal LUP Student Papers.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Subcourses that are part of this course can be found in an appendix at the end of this document.

Grades

Marking scale: Fail, Pass, Pass with distinction.

To pass the whole course, passed written report and passed oral presentation, as well as participation in compulsory components are required. The final grade is decided through a joint assessment of the results of these components, of which the written report has the greatest weight.

In accordance with the regulations of the Faculty of Science, the grade Pass with distinction can only be awarded if the thesis work does not exceed the regular course time by more than 20%.

To obtain the grade Pass with distinction, it is required that the student has shown substantial independence in their planning and execution of a research task, as well as high quality in their oral and written presentations of the thesis work.

Entry requirements

Admission to the course requires general entry requirements and 90 credits in Geology, including GEOB21 Evolution of Life and Earth's Climate, 15 credits, GEOB32 Mineralogy and Petrology, 15 credits, GEOB33 Sedimentology and Structural Geology, 15 credits, GEOB24 From the Ice Age to the Present and Swedish Regional Geology, 15 credits, and GEOB25 Geology in Society, 15 credits, or equivalent courses from other higher education institutions.

Further information

This course replaces GEOL01 Geology: Bachelor's Degree Project, 15 credits, and cannot be included in a degree together with this course.

The course is offered at the Department of Geology, Lund University.

Subcourses in GEOL02, Geology: Bachelor's Degree Project

Applies from V23

2301 Bachelor's Degree Project, 15,0 hp
Grading scale: Fail, Pass, Pass with distinction