Course Specifications
Valid as from the academic year 2019-2020

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size  (nominal values; actual values may depend on programme)
Credits 4.0  Study time 120 h  Contact hrs 44.0 h

Course offerings and teaching methods in academic year 2019-2020
A (semester 2)  Dutch, English  UGent  fieldwork  25.0 h
  on campus lecture  20.0 h

Lecturers in academic year 2019-2020
Bertrand, Sebastien  WE13  lecturer-in-charge
Mostaert, Frank  WE13  co-lecturer

Offered in the following programmes in  2019-2020  crdts offering
Bachelor of Science in Geology  4  A
Preparatory Course Master of Science in Geology  4  A

Teaching languages
Dutch, English

Keywords
Quaternary, Stratigraphy, paleoenvironments, glacial-interglacial cycles, Quaternary
Geology of Belgium

Position of the course
This course will give the students an insight into the key events and processes that have affected the global and regional environments during the last 2.6 million years. It focuses on the geomorphological and sedimentological traces of Quaternary variability. The techniques and methods used to study the specific problems inherent to the Quaternary are also explained. The latest internationally-accepted terminology and stratigraphy of the Quaternary is presented.

Contents
- Quaternary stratigraphy
- Origin of glacial-interglacial cycles and sea level fluctuations
- Glacier extent during the Quaternary glaciations
- Sedimentological, lithological and morphological expression of Quaternary environmental change
- People in the Quaternary
- Quaternary geology of Belgium

Initial competences
Basic knowledge of general geography and physics. The student must have passed (1) Earth System: Geology, (2) Earth System: introduction to physical geography, and (3) Sedimentology.

Final competences
1 The student shows insight into the evolution of the Earth during the Quaternary.
2 He / she has experience in the fieldwork techniques and geological archives that are specific to the Quaternary.
3 He/she understands the geological processes that have contributed to the development of the present-day natural landscapes.

Conditions for credit contract
Access to this course unit via a credit contract is determined after successful competences assessment

(Approved)
Conditions for exam contract
- This course unit cannot be taken via an exam contract

Teaching methods
- On campus lecture, fieldwork

Learning materials and price
- Textbook and Powerpoint slides available on Ufora
- Contribution to field trip: 21 €

References

Course content-related study coaching
- Theory: discussions over potential questions and problems during and after the lectures. Answers to questions via the discussion forum on Ufora.
- Fieldwork under the guidance of lecturer and assistants.

Evaluation methods
- end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period
- Written examination with open questions, assignment

Examination methods in case of periodic evaluation during the second examination period
- Written examination with open questions, assignment

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
- not applicable

Calculation of the examination mark
- Theory: exam at the end of the semester (80% of final score)
- Field report (20% of final score)