

## Exploration Geochemistry (I002923)

**Course size** *(nominal values; actual values may depend on programme)*

**Credits** 5.0

**Study time** 150 h

**Course offerings in academic year 2023-2024**

A (semester 1)

English

Gent

**Lecturers in academic year 2023-2024**

Mattsson, Hannes

UPPSAL01 lecturer-in-charge

**Offered in the following programmes in 2023-2024**

[International Master of Science in Sustainable and Innovative Natural Resource Management](#)

**crdts**

5

**offering**

A

**Teaching languages**

English

**Keywords**

**Position of the course**

**Contents**

Geochemistry for regional exploration. Exploration of mineralized rocks, including ore minerals, alteration assemblages and host rock. Estimating grades and tonnage from geochemical data, drill cores and image analysis. Environmental geochemistry of mine sites applied to monitoring and remediation.

**Initial competences**

**Final competences**

- 1 On completion of the course the student shall be able to:
  - Identify and explain geochemical anomalies associated with ore deposits and mineralizations
- 2 - Critically analyze and interpret geochemical exploration data
- 3 - Construct an exploration plan based on geochemical information

**Conditions for credit contract**

This course unit cannot be taken via a credit contract

**Conditions for exam contract**

This course unit cannot be taken via an exam contract

**Teaching methods**

Seminar, Lecture

**Learning materials and price**

**References**

**Course content-related study coaching**

**Assessment moments**

end-of-term and continuous assessment

**Examination methods in case of periodic assessment during the first examination period**

Participation, Written assessment

**Examination methods in case of periodic assessment during the second examination period**

Participation, Written assessment

**Examination methods in case of permanent assessment**

Participation

**Possibilities of retake in case of permanent assessment**

examination during the second examination period is possible in modified form

**Extra information on the examination methods**

Active participation in seminars and lectures (2 hp), written exercises (3 hp).

If there are special reasons for doing so, an examiner may make an exception from the method of assessment indicated and allow a student to be assessed by another method. An example of special reasons might be a certificate regarding special pedagogical support from the disability coordinator of the university.

**Calculation of the examination mark**