

# MASTER IN GEOLOGY

MAJORS: BASINS AND OROGENS • GROUNDWATER AND MINERAL RESOURCES • GEODYNAMICS AND GEORESOURCES • SURFACE PROCESSES AND PALEO-ENVIRONMENTS

Organised jointly by Ghent University and Catholic University of Leuven

120 ECTS CREDITS – LANGUAGE: ENGLISH – DEGREE: MASTER OF SCIENCE

An equivalent programme taught in Dutch is available.

## COURSE CONTENT

The Master in Geology – organised jointly by Ghent University and Catholic University of Leuven – offers an in-depth training in general geology and a specialised training in selected disciplines of geology. Emphasis is put on acquiring general academic skills such as research and exploration, reporting, co-operation with fellow students and researchers.

The student receives the necessary training to analyse and solve new, broader and more complex geological problems. He obtains the scientific attitude to solve these problems by selecting and applying advanced methods (qualitative and quantitative field analysis, direct and indirect observation techniques, physical and chemical analytical techniques, modelling of geological processes, etc).

One should not only have hands-on knowledge of the techniques and the basic principles, but also be able to appraise the potential and the limitations of the different techniques. In a rational and scientific way, he/she is able to process and to report the research results, to publish them in reports and in a master thesis (monograph), and to present and defend these results orally in a structured way, aided by modern communication techniques.

The Master in Geology has the social attitudes and skills to work in an interdisciplinary team with the aim to reach the best possible coherent solution for a specific problem.

## COURSE STRUCTURE

The master's programme offers the possibility to specialise in one of the four majors offered:

- Basins and Orogens (60 credits)
  - Groundwater and Mineral Resources (60 credits)
  - Geodynamics and Georesources (48 credits)
  - Surface Processes and Paleo-environments (52 credits).
- Depending on the chosen major, students take up an additional 30 to 42 credits for elective courses.

In the second year, a research project (master's dissertation) of 30 credits is scheduled. The master's dissertation is an original piece of research work. It aims to develop and strengthen the research capacity skills of the students. The student selects a topic and is given guidance by a promoter or supervisor. The master's dissertation consists of a literature review part, practical research and an original analysis of the topic.

## CAREER PERSPECTIVES

The strong multidisciplinary character of this master's programme does not only open the door to innovative research, but also to dynamic industrial sectors, governmental agencies, NGO's, etc. Students of the master's programme of Geology also acquire step by step an enormous advantage: the use of professional English. The world will be your oyster.

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## TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

### Rechtstreeks:

- Ba geologie

### Via voorbereidingsprogramma: (max 100 studiepunten)

- Ba biologie
- Ba chemie
- Ba fysica
- Ba fysica en sterrenkunde
- Ba geografie
- Ba geografie en geomatica
- Ba bio-ingenieurswetenschappen: land- en bosbeheer
- Ba bio-ingenieurswetenschappen: landbouwkunde
- Ba bio-ingenieurswetenschappen: milieutechnologie
- Ba ingenieurswetenschappen: geotechniek en mijnbouwkunde

### TAAL

Je voldoet aan de taalvoorwaarden op basis van je Vlaams diploma.

## ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

The course is open to students with at least a bachelor's degree in the field of geology with minimum 180 credits.

### LANGUAGE

More information regarding the required knowledge of English:  
[www.ugent.be/specificlanguage](http://www.ugent.be/specificlanguage)

## PRAKTISCHE INFORMATIE

### Studieprogramma:

<https://studiegids.ugent.be>

> faculteiten > opleidingstypes > ga naar de opleiding van je keuze

### Infomomenten

Masterbeurs

[www.ugent.be/masterbeurs](http://www.ugent.be/masterbeurs)

## PRACTICAL INFORMATION

### Study programme

[www.ugent.be/coursecatalogue](http://www.ugent.be/coursecatalogue)

> by Faculty > Programme types > select your programme

### Application deadline for international degree students

- for students who need a visa: 1st of March
  - for students who do not need a visa: 1st of June
- [www.ugent.be/deadline](http://www.ugent.be/deadline)

### Enrolling institution

Students choosing the major Basins and Orogens or Groundwater and Mineral Resources enrol at Ghent University; students choosing the major Geodynamics and Georesources or Surface Processes and Paleo-environments enrol at KU Leuven.

### Tuition fee

More information is to be found on:  
[www.ugent.be/tuitionfee](http://www.ugent.be/tuitionfee)

### Trajectbegeleiding

Beata De Vliegheer

T 09 264 50 53 - [beata.devliegheer@ugent.be](mailto:beata.devliegheer@ugent.be)

### Meer info

Afdeling Studieadvies – Campus Ufo, Ufo,  
Sint-Pietersnieuwstraat 33, 9000 Gent, T 09 331 00 31  
[studieadvies@ugent.be](mailto:studieadvies@ugent.be) – [www.ugent.be/studieadvies](http://www.ugent.be/studieadvies)

### Contact

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