

# MASTER OF SCIENCE IN CHEMISTRY (ANALYTICAL AND ENVIRONMENTAL CHEMISTRY)

120 ECTS CREDITS - LANGUAGE: ENGLISH

## WHAT

**Analytical and Environmental Chemistry** focuses on chemical analysis. You learn to identify elements, molecules and chemical/physical structures in complex materials and objects, from paintings and archaeological artefacts to meteorites and environmental samples. We offer this main subject in collaboration with Vrije Universiteit Brussel. The emphasis is specifically on geo- and cosmochemistry, and environmental analysis. An important aspect is the identification and acceptance of environmental and climate challenges. Our programme prepares you for a career as a chemist in the increasingly diverse analysis labs, whose social and industrial strategic importance never stops growing in today's high-tech society.

## STRUCTURE

Half of the curriculum consists of project-based education. Already in the first-year curriculum, you will take a start with your Master's dissertation. You end the Master's programme with a full-term work placement, which you can complete at a company or a foreign research laboratory.

In addition to the (domain) Master's programme described above, you can also choose a Master's Programme in Teaching (in Dutch: Educatieve Master). The Educatieve Master, however, is a Dutch-taught programme. Find out more at [www.ugent.be/educatievemaster](http://www.ugent.be/educatievemaster) (in Dutch).

## LABOUR MARKET

It is a fact that chemistry plays an important role in various branches of industry, which in turn, are crucial to the economy and employment. Take, for instance, the chemical industry, the pharmaceutical industry, or agriculture. Our broad academic programme ensures that our graduates find employment opportunities in different branches of industry.

Their career opportunities are as ample as they are diverse. Chemistry graduates can for instance be involved in academic research, product development, quality control ... or they can take on managerial positions in companies as well as in government agencies. In addition, they are also well-equipped for a career in the public sector, including education. The most important assets of university graduates in Chemistry are their research-mindedness, their problem-solving skills and their polyvalence.

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## TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

### 1 Rechtstreeks:

- Bachelor in de chemie

### 2 Na het met succes voltooien van een voorbereidingsprogramma:

#### aantal studiepunten te bepalen door de faculteit

- Bachelor in de archeologie
- Bachelor in de bio-industriële wetenschappen
- Bachelor in de bio-ingenieurswetenschappen
- Bachelor in de biochemie en de biotechnologie
- Bachelor in de biomedische wetenschappen
- Bachelor in de conservatie en restauratie
- Bachelor in de farmaceutische wetenschappen
- Bachelor in de geologie
- Bachelor in de industriële wetenschappen: chemie
- Bachelor in de ingenieurswetenschappen, afstudeerrichting: chemische technologie en materiaalkunde

### 3 Na het met succes voltooien van een schakelprogramma:

#### aantal studiepunten te bepalen door de faculteit

- Bachelor in de chemie

## ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

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

Information on admission requirements and the administrative procedure for admission on the basis of a diploma obtained abroad, can be found on the following page: [www.ugent.be/prospect/en/administration/enrolment-or-registration](http://www.ugent.be/prospect/en/administration/enrolment-or-registration).

## LANGUAGE REQUIREMENTS

Language requirements Dutch: no language requirements  
English: CEFR level B2

The language requirements for this study programme can be found on: [www.ugent.be/languagerequirements](http://www.ugent.be/languagerequirements)

## PRACTICAL INFORMATION

### Study programme

[studiekiezer.ugent.be/master-of-science-in-chemistry-analytical-and-environmental-chemistry-en/programma](http://studiekiezer.ugent.be/master-of-science-in-chemistry-analytical-and-environmental-chemistry-en/programma)

### Information sessions

#### Graduation Fair

[afstudeerbeurs.ugent.be/en/students/further-studies](http://afstudeerbeurs.ugent.be/en/students/further-studies)

### Enrolling institution

Information on enrolment at Ghent University.

### Application Deadline (for International degree students)

For students who **need a visa**: before 1st of April

For students who **do not need a visa**: before 1st of June

[Read more](#)

### Tuition fee

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

### Learning path counsellor

Sanne Kiekens

T 09 264 50 53

[traject.we@UGent.be](mailto:traject.we@UGent.be)

### Contact (for international degree students)

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