

# MASTER IN BIOLOGY

MAJORS: GENERAL BIOLOGY • BIODIVERSITY AND EVOLUTIONARY BIOLOGY • GLOBAL CHANGE ECOLOGY • FUNCTIONAL BIOLOGY  
MINORS: RESEARCH • BIO-INSPIRED INNOVATION AND SUSTAINABILITY

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

## COURSE CONTENT

The Master in Biology has a far-reaching influence on numerous areas within science and society. The research domain of biology itself is very broad, and covers the complete spectrum of the diversity of the formation of life and the different organisation levels of life, ranging from a cell to the ecosystem and biosphere level.

Actual topics and challenges such as protection of endangered species, global change, sustainability, cloning of organisms, dangerous diseases and medical progress have their roots in biology. Biology also contributes to numerous conceptual innovations that lead towards new disciplines such as the molecular biology and biotechnology.

Biology forms an exciting study domain that is constantly in evolution thanks to close interaction with a broad range of scientific disciplines such as chemistry, geology, geography and physics.

## COURSE STRUCTURE

The two-year master's programme (120 credits) consists of the following parts:

- 18 credits for general courses;
- 42 credits for major courses;
- 30 credits for minor (elective) courses;
- 30 credits for the master's dissertation.

The general courses prepare students for the right choice of their major courses and their master's dissertation.

In the first year of the master's programme students select one major from a total of four:

- General Biology
- Biodiversity and Evolutionary Biology
- Global Change Ecology
- Functional biology

This major allows them to improve their profound knowledge of the areas of research expertise of Ghent University.

Students can also choose from two minor course packages. It consists of broadening elective courses.

Possible combinations between minors and majors are:

- minor Bio-inspired Innovation and Sustainability – major General Biology
- minor Research – major Biodiversity and Evolutionary Biology
- minor Research – major Global Change Ecology
- minor Research – major Functional Biology.

The master's dissertation is situated within the research area of the major course package you have chosen. Most master's dissertations fit the current national or international (research) projects. However, the master's dissertation can also exploit the results of specific projects or it can even have a prospective character regarding future projects.

If you want to combine your master's degree with a teacher's degree, then there is the option of following an 'Educatieve master' instead of the above described master. The 'Educatieve master' however is a Dutch taught programme. More information can be found on [www.ugent.be/educatievemaster](http://www.ugent.be/educatievemaster).

## CAREER PERSPECTIVES

Graduates of the Master in Biology can work on scientific research in universities or scientific research institutions, at secondary or higher education level, in counseling or managerial functions within the government and in companies where research and development is the core business.

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## TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

### Rechtstreeks:

- Ba biologie

### Via voorbereidingsprogramma: (80 studiepunten)

- Ba geografie
- Ba geografie en geomatica
- Ba fysica
- Ba fysica en sterrenkunde
- Ba informatica
- Ba wiskunde

### Via voorbereidingsprogramma: (72 studiepunten)

- Ba chemie
- Ba geologie
- Ba industriële wetenschappen: chemie

### Via voorbereidingsprogramma: (max 55 studiepunten)

- Ba biochemie en biotechnologie
- Ba bio-ingenieurswetenschappen
- Ba biomedische wetenschappen
- Ba diergeneeskunde
- Ba geneeskunde
- Ba farmaceutische wetenschappen

*Onderstaand diploma komt in aanmerking voor het aanvragen van vrijstellingen binnen de opleiding Bachelor in de biologie, die rechtstreeks toegang verleent tot de masteropleiding.*

*Neem hiervoor contact op met de trajectbegeleider.*

- professionele Ba chemie  
opleiding(en) oude structuur:
  - gegradueerde chemie

### TAAL

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

## 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)

### Trajectbegeleiding

Beata De Vliegheer

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

### Meer info

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

### Contact

Ghent University – Faculty of Sciences

Student Administration Office

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## ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

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

### LANGUAGE

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

## 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

Ghent University

### Tuition fee

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

Last update: January 2020.

### Contact

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