



## BIOL2M1 - Introduction

### Introduction

---

#### **Introduction**

This master's degree aims to train "generalist" biologists capable of understanding the scientific foundations of the functioning of living organisms.

#### **Your future job**

Biologists apply their knowledge and know-how, which are very versatile, in very different sectors: in scientific, fundamental or applied research in research institutes or private laboratories, in expertise and resource management in the private or public sector, in education, training and communication.

#### **Your programme**



## Detailed programme by subject

### CORE COURSES [20.0]

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

#### ○ Travail de fin d'études (18 credits)

○ LBIOL2990	Mémoire	Pierre Morsomme (coord.)	FR [q1+q2] [] [18 Credits] 🌐
-------------	---------	-----------------------------	------------------------------

#### ○ Philosophie, éthique (2 credits)

2 crédits à choisir parmi

⊗ LSC2001	Introduction to contemporary philosophy	Peter Verdée Peter Verdée (compensates Charles Pence)	FR [q2] [30h] [2 Credits] 🌐
⊗ LSC2220	Philosophy of science	Alexandre Guay	EN [q2] [30h] [2 Credits] 🌐
⊗ LFILO2003E	Ethics in the Sciences and technics (sem)	Alexandre Guay (compensates Charles Pence) Hervé Jeanmart René Rezsöhazi	FR [q2] [15h+15h] [2 Credits] 🌐
⊗ LTHEO2840	Science and Christian faith	Benoît Bourguin Paulo Jorge Dos Santos Rodrigues	FR [q1] [15h] [2 Credits] 🌐
⊗ ESSPS2101	Science, ethics and development		FR



⌘ LBBMC2107	Microbial cellular physiology	Corentin Claeys Bouuaert Stephan Declerck Benoît Desguin Pascal Hois Géraldine Laloux Pierre Morsomme	EN [q2] [36h+18h] [5 Credits] 🌐
⌘ LBBMC2108	Molecular genetics and plant genomics	Henri Batoko François Chaumont Xavier Draye	EN [q2] [36h+18h] [5 Credits] 🌐
⌘ LBBMC2109	Plant cell physiology	Henri Batoko François Chaumont Charles Hachez	EN [q2] [36h+18h] [5 Credits] 🌐
⌘ LBBMC2110	Animal and human molecular genetics and genomics	Françoise Gofflot Nisha Limaye René Rezzohazy	EN [q2] [36h+18h] [5 Credits] 🌐
⌘ LBBMC2111			



○ ESBOE2123	Freshwater Biodiversity (UNamur)		FR [q1] [12h+24h] [3 Credits] 🌐
○ ESBOE2142	Ecology of natural and disturbed aquatic environments (UNamur)		FR [q1] [12h+20h] [2 Credits] 🌐
○ ESBOE2144	Resource management in fisheries and aquaculture		FR [q1] [18h+12h] [3 Credits] 🌐

**✂ Ecologie appliquée**

○ LBOE2166	Lutte biologique	Claude Bragard Thierry Hance	FR [q2] [12h+24h] [3 Credits] 🌐
○ LBOE2185	Evolutionary applications	Hans Van Dyck	EN [q2] [20h] [2 Credits] 🌐

---

## COURS AU CHOIX

---

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

### o Content:

---

#### ⊗ Autres cours au choix

L'étudiant-e peut compléter son programme avec des UE choisies dans la liste des cours du master 120 BOE et du master 120 BBMC à l'exception des cours des finalités didactiques, de LBOE2197, LBOE2297, LBOE2240, LBOE2241, LBOE2260, LBOE2261, LBOE2292, LBBMC2103, LBBMC2203, LBBMC2205, LBBMC2215, LBBMC2206, LBBMC2997, LBBMC2998 et LBBMC2201

#### ⊗ Activités de mise à niveau

l'étudiant-e peut choisir, en accord avec le conseiller aux études, jusqu'à 6 crédits d'activités de mise à niveau parmi les cours du bachelier et de l'approfondissement en biologie.

---

## Supplementary classes

---

**To access this Master, students must have a good command of certain subjects. If this is not the case, in the first annual block of their Masters programme, students must take supplementary classes chosen by the faculty to satisfy course prerequisites.**

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

### o Enseignements supplémentaires

---

## The programme's courses and learning outcomes

---

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

## BIOL2M1 - Information

### Access Requirements

Master course admission requirements are defined by the French Community of Belgium Decree of 7 November 2013 defining the higher education landscape and the academic organisation of courses.

General and specific admission requirements for this programme must be satisfied at the time of enrolling at the university.

Unless explicitly mentioned, the bachelor's, master's and licentiate degrees listed in this table or on this page are to be understood as those issued by an institution of the French, Flemish or German-speaking Community, or by the Royal Military Academy.

**In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.**

#### SUMMARY

- > [General access requirements](#)
- > [Specific access requirements](#)
- > [University Bachelors](#)
- > [Non university Bachelors](#)
- > [Holders of a 2nd cycle University degree](#)
- > [Holders of a non-University 2nd cycle degree](#)
- > [Access based on validation of professional experience](#)
- > [Access based on application](#)
- > [Admission and Enrolment Procedures for general registration](#)

### Specific access requirements

In addition to the access conditions described below, candidates will have to provide proof of a sufficient command of the French language (level B1 of the CEFR, Common European Framework of Reference for Languages).

Students who wish to be admitted on the basis of a dossier (see tables below) are invited to consult the [criteria for the evaluation of application](#).

#### University Bachelors

Diploma	Special Requirements	Access	Remarks
<b>UCLouvain Bachelors</b>			
<a href="#">Bachelor in Biology</a>		Direct access	
<a href="#">Bachelor in Chemistry</a>	Si l'étudiant a suivi la Titre inconnu:Iminbiol	Direct access	In some cases, the UCLouvain Enrolment Office, after reviewing their online enrolment or re-enrolment application, will ask the students concerned to provide an enrolment authorisation from the faculty/ school.
<a href="#">Bachelor in Bioengineering</a>		Access with additional training	
<b>Others Bachelors of the French speaking Community of Belgium</b>			
Bachelier en sciences biologiques		Direct access	
		Access with additional training	
<b>Bachelors of the Dutch speaking Community of Belgium</b>			
Bachelor in de biochemie en de biotechnologie		<a href="#">Access based on application</a>	
		<a href="#">Access based on application</a>	
<b>Foreign Bachelors</b>			
		<a href="#">Access based on application</a>	

#### Non university Bachelors

> Find out more about [links](#) to the university

Diploma	Access	Remarks
BA - technologue de laboratoire médical - crédits supplémentaires entre 45 et 60	Les enseignements supplémentaires éventuels peuvent être consultés dans le <a href="#">module complémentaire</a> .	Type court
BA en agronomie, orientation agro-industries et biotechnologies - crédits supplémentaires entre 45 et 60		
BA en agronomie, orientation agronomie des régions chaudes - crédits supplémentaires entre 45 et 60		
BA en agronomie, orientation environnement - crédits supplémentaires entre 45 et 60		
BA en agronomie, orientation forêt et nature - crédits supplémentaires entre 45 et 60		
BA en agronomie, orientation systèmes alimentaires durables et locaux - crédits supplémentaires entre 45 et 60		
BA en agronomie, orientation techniques et gestion agricoles - crédits supplémentaires entre 45 et 60		
BA en agronomie, orientation techniques et gestion horticoles - crédits supplémentaires entre 45 et 60		
BA en agronomie, orientation technologie animalière - crédits supplémentaires entre 45 et 60		
BA en chimie, orientation biochimie - crédits supplémentaires entre 45 et 60		
BA en chimie, orientation biotechnologie - crédits supplémentaires entre 45 et 60		
BA en chimie, orientation chimie appliquée - crédits supplémentaires entre 45 et 60		
BA en chimie, orientation environnement - crédits supplémentaires entre 45 et 60		

### Holders of a 2nd cycle University degree

Diploma	Special Requirements	Access	Remarks
"Licenciés"		-	
Masters		-	

### Holders of a non-University 2nd cycle degree

#### Access based on validation of professional experience

> It is possible, under certain conditions, to use one's personal and professional experience to enter a university course without having the required qualifications. However, validation of prior experience does not automatically apply to all courses. Find out more about [Validation of priori experience](#).

#### Access based on application

Access based on application : access may be granted either directly or on the condition of completing additional courses of a maximum of 60 ECTS credits, or refused.

The first step in the procedure is to submit a file online (see <https://uclouvain.be/en/study/inscriptions/futurs-etudiants.html>).

Students who wish to be admitted on the basis of a dossier are invited to consult the [criteria for the evaluation of application](#).

#### Admission and Enrolment Procedures for general registration



