



BIOL2M1

2023 - 2024

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

The knowledge to be acquired is at two levels of complexity of living organisms: "biochemistry, molecular and cellular biology" on the one hand, and "biology of organisms and ecology" on the other hand, identified by two options. The programme consists mainly of activities borrowed from the first year of the Masters (120 credits) of the same name.

Detailed programme by subject

CORE COURSES [20.0]

- Mandatory
 - ✘ Optional
 - △ Not offered in 2023-2024
 - ⊖ Not offered in 2023-2024 but offered the following year
 - ⊕ Offered in 2023-2024 but not the following year
 - △ ⊕ Not offered in 2023-2024 or the following year
 - Activity with requisites
 - ⊕ Open to incoming exchange students
 - ⊖ Not open to incoming exchange students
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OPTIONS

The option in Biochemistry, Molecular and Cellular Biology is fully taught in English.

The option in biology of organisms and ecology is mainly taught in French.

The student chooses an option and completes his or her program with a elective subjects.

- > [Option in Biochemistry, Molecular and Cellular Biology](#) [en-prog-2023-biol2m1-lbiol210o]
- > [Option in biology of organisms and ecology](#) [en-prog-2023-biol2m1-lbiol211o]
- > [Cours au choix](#) [en-prog-2023-biol2m1-lbiol212o]

OPTION IN BIOCHEMISTRY, MOLECULAR AND CELLULAR BIOLOGY [24.0]


- Mandatory
- ⊗ Optional
- △ Not offered in 2023-2024
- ⊖ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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 \(objectives, methods, evaluation...\)](#)

○ Content:

○ Cours obligatoires (11 credits)

○ LBBMC2101	Structural and functional biochemistry	Pierre Morsomme Patrice Soumillion	EN [q1] [36h+6h] [4 Credits] 🌐
○ LBBMC2102	Integrated molecular and cellular biology	Henri Batoko Bernard Hallet Pierre Morsomme Melissa Page	EN [q1] [30h] [3 Credits] 🌐
○ LBRMC2201			

⌘ LBBMC2107	Microbial cellular physiology	Corentin Claeys Bouaert Stephan Declerck Benoît Desguin Pascal Hois Géraldine Laloux Pierre Morsomme (coord.)	EN [q2] [36h+18h] [5 Credits] 
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OPTION IN BIOLOGY OF ORGANISMS AND ECOLOGY [22.0]

- Mandatory
- ✘ Optional
- △ Not offered in 2023-2024
- ⊖ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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:

o Cours obligatoires (14 credits)

● ESBOE2108	Field training in aquatic ecology (UNamur)		
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○ LBOE2168	Interactions plantes-environnement	Stanley Lutts Muriel Quinet	EN [q1] [24h+12h] [3 Credits] 
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✂ Ecologie et gestion des milieux aquatiques et dulcicoles

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

✂ Ecologie appliquée

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

COURS AU CHOIX

- Mandatory
- ⊗ Optional
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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, students must take supplementary classes chosen by the faculty to satisfy course prerequisites.

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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

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

Teaching method

The teaching strategy takes its inspiration from the idea of "taking responsibility for one's own learning". In the core subjects, students have a choice between a series of activities in human sciences and may choose between many elective subjects. Learning is for the most part centred on individual work (e.g. reading, consultation of databases and bibliographic references, field and laboratory work).

Evaluation

The evaluation methods comply with the regulations concerning studies and exams (<https://uclouvain.be/fr/decouvrir/rgee.html>). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

Students will mainly be assessed on the basis of individual work (e.g. reading, consultation of databases and bibliographic references, writing monographs and reports, presentation of seminars, dissertation and field work). As far as possible, there will be continuous assessment, including regular 'open book examinations'. Certain activities will not be given a precise mark but will be officially certified.

Possible trainings at the end of the programme

Holders of the Master in Biology with an option course in biochemistry, molecular and cellular biology may go on to the degree of Master in Biochemistry, Molecular and Cellular Biology (120 credits) subject to a further year of training and a more advanced dissertation.

Holders of the Master in Biology with an option course in biology of organisms and ecology may go on to the degree of Master in Biology of Organisms and Ecology (120 credits) subject to a further year of training and a more advanced dissertation.

Contacts

Curriculum Management

Entity

Structure entity	SST/SC/BIOL
Denomination	(BIOL)
Faculty	Faculty of Science (SC)
Sector	Sciences and Technology (SST)
Acronym	BIOL
Postal address	Croix du sud 4-5 - bte L7.07.05 1348 Louvain-la-Neuve Tel: +32 (0) 10 47 34 89 - Fax: +32 (0) 10 47 35 15 https://uclouvain.be/fr/facultes/sc/biol
Website	https://uclouvain.be/fr/facultes/sc/biol

Other academic Supervisor(s)

- [Pierre Morsomme](https://uclouvain.be/repertoires/pierre.morsomme) (<https://uclouvain.be/repertoires/pierre.morsomme>)

Jury

- President: [Henri Batoko](https://uclouvain.be/repertoires/henri.batoko) (<https://uclouvain.be/repertoires/henri.batoko>)
- Secretary and Study advisor: [Charles Hachez](https://uclouvain.be/repertoires/charles.hachez) (<https://uclouvain.be/repertoires/charles.hachez>)

Useful Contact(s)

- Administrative manager for the student's annual program: [Catherine De Roy](https://uclouvain.be/repertoires/catherine.deroy) (<https://uclouvain.be/repertoires/catherine.deroy>)

