



BOE2M
2024 - 2025

BOE2M - Introduction

Introduction

Introduction

UCLouvain and UNamur are mutually committed to setting up a joint master's degree including specialized training in various fields of organism biology and ecology, that reconciles terrestrial with aquatic environments, which were long studied separately.

Your profile

You

- have a bachelor's degree in life sciences and would like to specialize in the study of aquatic and terrestrial ecosystems;
- are passionate about experimental research;
- wish to engage in an environment-oriented profession and develop environmental management skills;
-

BOE2M - Teaching profile

Learning outcomes

The UCLouvain (Université catholique de Louvain at Louvain-la-Neuve) and UNamur (Université de Namur at Namur) organize a joint

- 5.1 initier de manière pro-active des contacts avec des personnes ayant une expertise ou une responsabilité, pour établir une relation professionnelle,
- 5.2 définir son projet de travail en concertation avec son supérieur,
- 5.3 s'intégrer dans un environnement professionnel et y interagir de façon efficace et respectueuse avec des interlocuteurs variés.
6. Travailler en équipe dans une perspective collaborative
- 6.1 participer activement à une réunion d'équipe en partageant ses idées, ses expériences et ses connaissances,
- 6.2 écouter les autres et arriver à un consensus,
- 6.3 réaliser, en équipe, des recherches ou d'autres types de projets, en répartissant les tâches et les responsabilités,
- 6.4 préparer une présentation écrite ou orale en collaboration, en combinant les informations apportées par les membres de l'équipe.
7. Assumer des responsabilités vis-à-vis de l'écosystème Terre et de la société humaine
- 7.1 évaluer et signaler les enjeux actuels et futurs des actions de l'homme pour le bien-être du monde vivant et son environnement,
- 7.2 évaluer les enjeux éthiques et sociétaux des pratiques en biologie et gestion des écosystèmes,
- 7.3 contribuer activement à résoudre des problèmes sociétaux et environnementaux,
- 7.4 énoncer des critiques constructives et de participer activement aux débats scientifiques et sociétaux.
8. S'il choisit la finalité approfondie,
- 8.1 appliquer les connaissances acquises au cours du Master dans un environnement nouveau, au sein d'un institut de recherche, une association, une administration, un bureau d'études, une industrie ou une entité de gestion d'espaces naturels.
9. S'il choisit la finalité didactique, mobiliser les compétences nécessaires pour entamer efficacement le métier d'enseignant du secondaire supérieur, en biologie, et pouvoir y évoluer positivement [identique pour toute finalité didactique]
- 9.1 Intervenir en contexte scolaire, en partenariat avec différents acteurs,
- 9.2 enseigner en situations authentiques et variées,
- 9.3 exercer un regard réflexif et se projeter dans une logique de développement continu.
- Pour plus de détails, consultez l'[Agrégation de l'enseignement secondaire supérieur \(sciences biologiques\)](#).

Programme structure

The Master in Biology of Organisms and Ecology comprises core subjects of 50 credits, a focus of 30 credits, an option course of 22 credits and 18 credits for optional subjects.

Whatever the focus or the options chosen, the programme of this master shall totalise 120 credits, spread over two years of studies each of 60 credits

BOE2M Programme

Detailed programme by subject

CORE COURSES [55.0]

- 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...)

LIST OF FOCUSES

- > Research Focus [en-prog-2024-boe2m-lboe200a]
- > Teaching Focus [en-prog-2024-boe2m-lboe200d]

RESEARCH FOCUS [30.0]

- 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, ...)

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	Year
○ Content:	1 2
○ LBOE2240	

Year

12

O Un cours au choix (2 credits)
Une unité d'enseignement à choisir. L'unité d'enseignement d'Histoire des sciences ne peut être choisie que si l'étudiant ne l'a pas suivie dans le cadre d'études antérieures à l'UNamur

⌘ EFAGR2403	Education in teaching and learning technologies (UNamur)		FR [q2] [15h] [2 Credits] 🌐		x
⌘ EFAGR2405	Initiation aux pratiques de tutorat (UNamur)		FR [q2] [4h+11h] [2 Credits] 🌐		x
⌘ ESAGR2213	Didactical Comparison between Experimental Sciences and Mathematics				

x

⌘ EFAGR2405

OPTIONS

[> Modules](#)

Year

12

⌘ Ecology et gestion des milieux aquatiques

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

⌘ Ecology et évolution appliquées

○ LBOE2166	Lutte biologique	Claude Bragard Thierry Hance	PO [q2] [12h+24h] [3 Credits]	X	X
○ LBOE2185	Evolutionary applications				

				Year	
				1	2
⌘ LGEO2140	Global environmental challenges in the Anthropocene	Veerle Vanacker Veerle Vanacker (compensates Kristof Van Oost)	EN [q2] [30h+30h] [5 Credits]	X	X
⌘ LBRAT2101	Suburban and rural space development	Pierre Defourny (coord.) Yves Hanin Marie Pairon	FR [q1] [45h+15h] [5 Credits]	X	X
⌘ LBRTI2101A	Data Science in bioscience engineering	Patrick Bogaert Emmanuel Hanert	FR [q1] [22.5h+15h] [3 Credits] > English-friendly	X	X
⌘ LBIRE2102	Applied geomatics	Pierre Defourny	FR [q1] [30h+22.5h] [4 Credits] > English-friendly	X	X
⌘ ESGOG1201	Introduction aux systèmes d'informations géographiques (UNamur)		FR [q1] [15h+20h] [4 Credits]	X	X
⌘ ESGOG1301	Modelling and analysis of geographic information (UNamur)		FR [q2] [20h+30h] [4 Credits]	X	X

⌘ Cours d'ouverture

⌘ LDROP2101	Management of Intellectual Property Rights	François Wéry	EN [q2] [30h] [5 Credits]	X	X
⌘ LDROP2061	Sustainable Development Law	Charles-Hubert Born	FR [q2] [30h] [5 Credits]	X	X
⌘ LDROP2063	Sectoral Environmental Law	Valérie Dupont Damien Jans	FR [q2] [30h] [5 Credits]	X	X
⌘ WSBIM2290	Introduction to laboratory animal science	Jean-Paul Dehoux	FR [q1] [37h] [3 Credits]	X	X
⌘ ESFCM2101					

INEO, INTERDISCIPLINARY TRAINING IN ENTREPRENEURSHIP

- Mandatory
 - ✘ Optional
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-

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.

In some cases, a complementary program (maximum 60 ECTS) consisting of courses from the bachelor in biology will be required, in coordination with the Academic Advisor, and based on the student's previous background and training.

Course prerequisites

There are no prerequisites between course units (CUs) for this programme, i.e. the programme activity (course unit, CU) whose learning

BOE2M - 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

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- > [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 meeting 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 wishing to access the didactic purpose must provide proof of a mastery of the French language at level C1 of the CEFR.

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
UCLouvain Bachelors			
Bachelor in Biology		Direct access	
Bachelor in Chemistry	Mineure en biologie	Access based on application	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.
Bachelor in Bioengineering		Access with additional training	
		Access based on application	

[Access based on application](#)

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 module complémentaire .	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 animale - 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"			
		Direct access	
Masters			
		Direct access	

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

Specific professional rules

Successful completion of the master's course with **teaching focus** leads to the award of the master's degree with teaching focus and the title of secondary school education specialist.

The [Réforme des Titres et Fonctions](#) ("Titles and Functions Reform"), in force since 1 September 2016, is intended to harmonise the titles, functions and pay scales of basic and secondary education professionals in French Community of Belgium networks.

It also aims to guarantee the priority of preferred titles over minimum titles and to establish a regime for titles in short supply.

AESS holders can learn which functions they can carry out and the pay scales from which they can benefit by [clicking here](#).

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	
Academic supervisor:	Hans Van Dyck
Jury	
	• President and study advisor: Renate Wesselingh • Secretary: frederik.delaender@unamur.be
Useful Contact(s)	
	• Administrative manager for the student's annual program: Aloysia Stephenne

