

At Louvain-la-Neuve - 120 credits - 2 years - Day schedule - In French

Dissertation/Graduation Project : **YES** - Internship : **YES**

Activities in English: **YES** - Activities in other languages : **NO**

Activities on other sites : **YES**

Main study domain : **Sciences**

Organized by: **Faculty of Science (SC)**

Programme acronym: **BOE2M** - Francophone Certification Framework: 7

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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 programme, at both sites, for the Master (120 credits) in Biology of Organisms and Ecology, described below.

The aim is to train scientists who can analyse, understand and react when faced with questions or problems relating to the environment and biodiversity, both in terrestrial and aquatic ecosystems, and to the functioning of organisms function in these ecosystems. This involves advanced training, field observation, experimental research both inside and outside the laboratory, and requires the modern methods used by biologists.

The **research focus** prepares students to become researchers or to have an environmentally oriented profession outside of academia. The key element of this focus is a 4-month internship, which can take place in any professional environment that works around the themes covered by the program.

- 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
-

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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, ...)

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

Year

1 2

o Content:

● LBOE2240

Stage professionnel

				Year	
				1	2
○ LSCI2320	Didactics and epistemology of science	Myriam De Kesel (coord.) Marc de Wergifosse Gabriel Dias de Carvalho Junior	30 [q1] [22.5h] [2 Credits] ⓘ	x	x
○ LBIO2340	Didactics and Epistemology of Biology	Myriam De Kesel	30 [q1+q2] [37.5h+0h] [4 Credits] ⓘ	x	x
○ LAGRE2220	General didactics and education to interdisciplinarity	Stéphane Colognesi Severine De Croix Myriam De Kesel Jean-Louis Dufays Anne Ghysselinckx Véronique Lemaire Benoît Vercruyse	30 [q1+q2] [37.5h] [3 Credits] ⓘ	x	x

x

ESAGR2202 Didactique et épistémologie de la physique I (UNamur)

OPTIONS




- > [Modules](#) [en-prog-2024-boe2m-lboe900o]
- > [Liste des activités au choix](#) [en-prog-2024-boe2m-lboe219o]
- > [INEO, Interdisciplinary training in entrepreneurship](#) [en-prog-2024-boe2m-lboe955o]
- > [Optional courses](#) [en-prog-2024-boe2m-lsc100o]

MODULES [24.0]




- 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]

⌘ Ecologie 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

⌘ Ecologie et évolution appliquées

○ LBOE2166	Lutte biologique	Claude Bragard Thierry Hance	PO [q2] [12h+24h] [3 Credits] 	X	X
○ LBOE2185	Evolutionary applications	Hans Van Dyck	PO [q2] [20h] [2 Credits] 	X	X
○ ESBOE2237	Biological water quality assessment (UNamur)		PO [q2] [24h+12h] [3 Credits] 	X	X

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INEO, INTERDISCIPLINARY TRAINING IN ENTREPRENEURSHIP

- 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...)

This option lasts 2 years and is integrated into more than 30 Masters programs in 9 faculties/schools of the UCLouvain. The choice of this option implies the realization of an interfaculty dissertation (in team) on a business creation project. Access is limited to students selected on the basis of a portfolio. More info. via <https://uclouvain.be/en/study/ineo>

Admission to this CPME option is subject to selection, please submit your application in due time <https://uclouvain.be/fr/etudier/ineo/admission.html>

Courses in this option cannot be taken individually outside of the option.

From 20 to 25 credit(s)

Year

1 2

Content:

⊗ LINEO2021	<p>Financer son projet <i>Ce cours est obligatoire pour les étudiants qui n'ont pas de prérequis en gestion (les étudiants qui ont suivi la mineure en gestion, ou la mineure en esprit d'entreprendre sont dispensés de ce cours).</i></p>	<p>Philippe Grégoire Olivier Vercrusse</p>	<p>(FR) [q2] [30h+15h] [5 Credits] ⊗</p>	<p>x</p>
● LINEO2001	<p>Théorie de l'entrepreneuriat</p>			

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.

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

- > [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 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](#)

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](#).

The university cannot be held responsible for any problems that students may encounter at a later date with a view to a teaching appointment in the French Community of Belgium.

Teaching method

Inter-university cooperation between UCL and FUNDP, where complementary research in ecology is carried out, means that the range of available courses is much wider than at each individual university. We have built a programme with joint training and 7 credit of option courses. These option courses are mainly focused on subjects which cut across the boundaries between the plant and animal and the terrestrial and aquatic worlds. The structure of the programme enables students to diversify and individualize their studies within Tmedist for ant

Teaching method

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	
	<ul style="list-style-type: none">• President and study advisor: Renate Wesselingh• Secretary: frederik.delaender@unamur.be
Useful Contact(s)	
	<ul style="list-style-type: none">• Administrative manager for the student's annual program: Aloysia Stephenne

