

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

Table of contents

[Introduction](#)

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

- 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

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] Teaching language (FR, EN, ES, NL, DE, ...)

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

Year

1 2

Content:

⊗ Ecotoxicology

○ ESBOE2162	Ecotoxicology of populations, communities and ecosystems		EN [q1] [12h+12h] [2 Credits] 🌐	X	X
○ ESBOE2170	Advances in applied and basic ecotoxicology (UNamur)		EN [q1] [48h+32h] [6 Credits] 🌐	X	X

⊗ Molecular ecology

○ LBOE2124	Molecular ecology	Renate Wesselingh	EN [q2] [36h+56h] [8 Credits] ⊖ 🌐	X	X
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⊗ Functional genomics

○ LBOE2165	Evolutionary genomics and transcriptomics	Alice Dennis Melissa Page	EN [q2] [30h+18h] [4 Credits] ⊕ 🌐	X	X
○ ESBOE2169	Ecological proteomics and epigenetics		EN [q2] [30h+18h] [4 Credits] ⊕ 🌐	X	X

⊗ Biologie de la conservation et de la restauration

○ LBOE2120	Conservation de la biodiversité	Nicolas Schtickzelle	EN [q1] [36h+12h] [4 Credits] 🌐	X	X
○ LBOE2125	Biodiversity and humans	Charles-Hubert Born Thierry Hance	FR [q1] [24h] [2 Credits] 🌐	X	X
○ LBOE2141	Ecologie de la restauration	Aurélien Kaiser	FR [q1] [12h+12h] [2 Credits] 🌐	X	X

⊗ Landscape and movement ecology

○ LBOE2140	Landscape ecology	Hans Van Dyck	EN [q1] [24h+24h] [4 Credits] 🌐	X	X
○ LBOE2150	Movement ecology	Ruben Evens (compensates Hans Van Dyck Hans Van Dyck)	EN [q1] [24h+12h] [4 Credits] 🌐	X	X

⊗ Ecologie des interactions

○ LBOE2160	Ecologie des interactions	Thierry Hance Hans Van Dyck Renate Wesselingh	FR [q1] [24h] [2 Credits] 🌐	X	X
○ LBOE2161	Ecologie comportementale	Hans Van Dyck	FR [q1] [24h+12h] [3 Credits] 🌐	X	X
○ LBOE2168	Interactions plantes-environnement	Stanley Lutts Muriel Quinet	FR [q1] [24h+12h] [3 Credits] 🌐	X	X

				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	Formation en expérimentation animale niveau technicien: techniques, méthodes alternatives, législation et éthique (UNamur)		FR [q2] [40h] [4 Credits] 🌐	X	X
⊗ ESFCM2201	Formation de maître d'expériences en manipulation animale (UNamur - SFCM M201)		FR [q1] [40h] [4 Credits] 🌐	X	X
⊗ ES BIO2119	Gestion des ressources humaines (UNamur)		FR [q2] [15h] [2 Credits] 🌐	X	X
⊗ ESGES2203	Gestion de l'entreprise - Partim Sciences (UNamur)		FR [q2] [12h] [2 Credits] 🌐	X	X

INEO, INTERDISCIPLINARY TRAINING IN ENTREPRENEURSHIP

- Mandatory
 - ✘ Optional
 - △ Not offered in 2024-2025
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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 outcomes are to be certified and the corresponding credits awarded by the jury before registration in another CU.

The programme's courses and learning outcomes

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies 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.

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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[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	
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		

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

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

