



MA-ENVI | M-ENVIG | 2024-2025

# Master in Environmental Science and Management

## Focus Management of the environment

The 2024-2025 programme is subject to change. It is provided for information purposes only.

### Programme mnemonic

MA-ENVI

> Focus *Management of the environment* : M-ENVIG

### Exists also in

> Focus *Environmental Science* : M-ENVIE

### Studies level

Master 120 credits

### Learning language

english and french

### Schedule

office hours

### Studies category / subcategory

Sciences and technics / Sciences

### Campus

Plaine and Solbosch

necessary for a critical, interdisciplinary and multidimensional approach to these problems. Students develop, throughout the program, their ability to inform, lead and accompany socio-environmental transformations. The Master is built around two distinct purposes, with complementary objectives: Environmental Management and Environmental Sciences.

The aim of the Major in Environmental Management (finalité "gestion de l'environnement") is to train actors who will be able to think, promote, implement and evaluate actions for the sustainability of our societies, within companies, public organizations, research and civil society.

This major is open to holders of a bachelor's degree (university and non-university) of diverse disciplines, and under possible conditions (cfr. Access conditions). This training will enable students to act as generalist environmental experts by using analytical tools and concepts that develop a multi-dimensional and multi-stakeholder reading of environmental problems. Graduates will be able to interact with all types of specialists to co-manage the necessary expertise and develop solutions to environmental problems. The Master considers the great diversity of contexts and environmental issues and takes a look at all scales of issues from the most local to the global.

## Succeed in your studies

The cours seminar "Interdisciplinary Project 1" includes a specific component to the preparation of the Master dissertation.

Under certain conditions, it is possible to ask, at the beginning of the academic year, a "allègement" (spreading courses over different years). This opportunity is to be taken very seriously by students who have a professional activity, as it may be difficult to combine a full-time job with the planned teaching activities (including seminars, group work and Master thesis), not to mention the social life of each.

## Programme objectives

Addressing the environmental challenges facing our societies is one of the largest projects of the 21st century. The Master aims to provide students with the knowledge and skills

## Programme's added value

The major in **Environmental Management** allows candidates to approach environmental issues systematically according to different disciplinary approaches, by preparing students for the professional context through group projects and contacts with field workers during field trips and conferences.

## Teaching methods

The teaching and learning is based on a set of theoretical courses as well as research and project seminars, group work and, if the student wishes, an internship. A number of courses include field trips or excursions, or involve professionals: each year a number of people with environmental responsibilities come to share their



knowledge and respond to students. Can also be part of the curriculum courses of lectures.

The Master also involves the development and presentation of a final masters dissertation. It is to be considered as an important vector of specialization of the student. In the best case, it will constitute the business card of the student in the professional world. The dissertation can be oriented towards research and analysis, just as it can have a more operational and practical purpose.

## Succeed in your studies

### Choose

The information and guidance counsellors at the InfOR-études [<https://www.ulb.be/en/studies-info-desk-1>] service will help you choose your studies throughout the year.

### Succeed

Take part in preparatory courses [<https://www.ulb.be/en/studies-info-desk-1>] or get help to succeed [<https://www.ulb.be/en/studies-info-desk-1>], before or during your studies.

### Get help

Apply for financial aid, look for accommodation or a student job, get support [<https://www.ulb.be/fr/aides-services-et-accompagnement/aid-services-and-support-1>] for your specific needs.

## International/Openness

Students have the opportunity to complete their teaching program through an exchange in Europe (Erasmus +) or internationally. The environment programme has Erasmus + exchange agreements with a dozen of European universities, a list which is regularly extended. Exchanges with non-European universities are also possible. Among the many possible destinations, the students of the Master in Environmental Science and Management have taken courses in Switzerland, Guyana, Canada, Ecuador ...

In addition, it is also possible to do an internship abroad. A European scholarship can be awarded for internships outside Belgium in the Erasmus + area.

The Major in Environmental Management deals with relations between human societies and the environment by mobilizing different disciplinary knowledge (ecology, economics, politics, law, etc.), by studying different sectors and themes that influence the environment (agriculture, energy, industries, tourism, transport, ...) and through the use of different tools for analysis and management (life cycle analysis, instruments and decision processes, management of public space, geomatics, ...). One of the strong points of this aim is to rely as much on the natural sciences as on different social sciences.

## Job opportunities

The employment prospects reflect the diversity of students' origins and motivations as well as the heterogeneity of current environmental issues.

Graduates occupy positions of responsibility in public organizations, consulting and study offices, non-governmental organizations, companies ... They work at different levels, from communal to international, knowing they have been able to work, during the Master, with a large network of resource people active in different sectors. Some graduates may also be interested in scientific research.

Some examples :

- Project managers in the different areas of environmental management (energy, climate, biodiversity, circular economy, water management, etc.) at the level of private sectors, from local to international public administrations, associations or NGOs.
- Academic or private researchers.
- Associative workers (animation, training, neighbourhood project, environmental education) and / or the social and solidarity economy.
- Consultants in specialized study/consultancy offices (impact studies, carbon off-setting, environmental management systems, etc.).
- Environmental Advisor - eco-advisor in the public service or in the private sector

### Contacts

 [ma-envi-gestion@ulb.be](mailto:ma-envi-gestion@ulb.be)

 +32 2 650 43 02

 <https://sciences.ulb.be/departement-geosciences-environnement-et-societe>

### Jury President

Thomas BAULER

### Jury Secretary

François FRIPIAT



# Master in Environmental Science and Management

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This Master programme uses an interdisciplinary approach, relying on both natural and human sciences (ecology, geology, economy, law, etc.). Furthermore, it is structured around environmental domains (water, soil, air, etc.), economic sectors (agriculture, industry, energy, etc.), and environmental issues (climate change, waste, etc.).

### Bloc 1 | M-ENVIG | MA-ENVI

## Tronc commun (avec la finalité Sciences de l'environnement)

- ENVI-F403 **Socio-environmental Dynamics** | Maria MANCILLA GARCIA (Coordinator)  
⌚ 5 credits [lecture: 24h, practical work: 12h] 📅 first term 🗨 English
- ENVI-F405 **Climat: sciences et politiques** | Frank PATTYN (Coordinator)  
⌚ 5 credits [lecture: 40h] 📅 second term 🗨 French
- ENVI-F409 **Economie écologique** | Thomas BAULER (Coordinator)  
⌚ 5 credits [lecture: 24h, practical work: 12h] 📅 second term 🗨 French
- ENVI-F437 **Systèmes biologiques** | Sonia VANDERHOEVEN (Coordinator)  
⌚ 5 credits [lecture: 36h] 📅 first term 🗨 French
- ENVI-F452 **Environmental impact analysis and management** | Wouter ACHTEN (Coordinator)  
⌚ 5 credits [lecture: 24h, practical work: 12h, project: 24h] 📅 first term 🗨 English/French

## Cours spécifiques de la finalité gestion de l'environnement

- ENVI-D500 **Epistémologie des pratiques environnementales** | Benoît TIMMERMANS (Coordinator)  
⌚ 5 credits [lecture: 24h, tutorial classes: 12h, cours global: 12h] 📅 second term 🗨 French
- ENVI-F002 **Compétences universitaires** | Wouter ACHTEN (Coordinator)  
⌚ 5 credits [lecture: 6h, tutorial classes: 12h, practical work: 26h, project: 36h] 📅 academic year 🗨 French
- ENVI-F422 **Méthodes qualitatives pour une analyse interdisciplinaire** | Maria MANCILLA GARCIA (Coordinator)  
⌚ 5 credits [lecture: 8h, tutorial classes: 10h, field trips: 12h, project: 56h] 📅 second term 🗨 French
- ENVI-F434 **Géohistoire des relations sociétés - environnement** | Jean-Michel DECROLY (Coordinator) and Chloé DELIGNE  
⌚ 5 credits [lecture: 36h] 📅 first term 🗨 French
- ENVI-F454 **Energie: Société et environnement** | Michel HUART (Coordinator) and Nadine MATTIELLI  
⌚ 5 credits [lecture: 30h, practical work: 12h, project: 24h] 📅 first term 🗨 French

## Option dirigée

*A total of ten credits chosen from the following*

- ENVI-F4001 (optional) **Fonctionnement, gestion et traitement des environnements aquatiques** | Nathalie GYPENS (Coordinator) and Frédéric DEBASTE  
⌚ 5 credits [lecture: 48h, field trips: 12h] 📅 second term 🗨 French
- ENVI-F438 (optional) **Circular Economy** | Wouter ACHTEN (Coordinator) and Prakash VENKATESAN  
⌚ 5 credits [lecture: 36h, field trips: 8h, project: 8h] 📅 second term 🗨 English
- ENVI-F455 (optional) **Géorressources du sous-sol et anthropocène** | Corentin CAUDRON, Adel EL Gammal and Nadine MATTIELLI  
⌚ 5 credits [lecture: 34h, seminars: 10h, field trips: 16h] 📅 second term 🗨 French

ENVI-F529  
(optional) **Ressources: Genèse et environnement** | Nadine MATTIELLI (Coordinator), Corentin CAUDRON and Michel HUART  
🕒 5 credits [lecture: 22h, practical work: 6h, field trips: 12h] 📅 second term 🗨️ French

ENVI-L4110  
(optional) **Compartiments environnementaux, production, consommation et leurs impacts sur la santé** | Olivier VANDENBERG (Coordinator) and Valérie ROORYCK  
🕒 5 credits [lecture: 12h, practical work: 48h] 📅 second term 🗨️ French

GEOG-F414  
(optional) **Analyse des espaces urbains** | Mathieu VAN CRIEKINGEN (Coordinator)  
🕒 5 credits [lecture: 24h, project: 30h] 📅 first term 🗨️ French

TOUR-F407  
(optional) **Transport, mobilités et environnement** | Frédéric DOBRUSZKES (Coordinator)  
🕒 5 credits [lecture: 24h, practical work: 6h] 📅 second term 🗨️ French

TOUR-F430  
(optional) **Tourisme et environnement** | Isabelle CLOQUET (Coordinator) and Anya DIEKMANN  
🕒 5 credits [lecture: 18h, practical work: 18h, project: 42h] 📅 first term 🗨️ French



# Master in Environmental Science and Management

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### Bloc 2 | M-ENVIG | MA-ENVI

## Tronc commun (avec la finalité Sciences de l'environnement)

- ENVI-F510 **Droit de l'environnement** | Chiara ARMENI (Coordinator)  
 5 credits [lecture: 24h] first term French
- MEMO-F530 **Mémoire de fin d'études** | Wouter ACHTEN (Coordinator), Thomas BAULER and Maria MANCILLA GARCIA  
 20 credits [mfe/tfe: 240h] first and second terms

## Cours spécifiques de la finalité Gestion de l'environnement

- ENVI-F003 **The life of environmental numbers** | Wouter ACHTEN (Coordinator), Thomas BAULER, Yves DE SMET and Maria MANCILLA GARCIA  
 5 credits [lecture: 24h, practical work: 12h, project: 24h] first term French
- ENVI-F004 **Action pour changement** | Thomas BAULER (Coordinator), Maria MANCILLA GARCIA and Bonno PEL  
 5 credits [lecture: 24h, practical work: 12h, project: 24h] first term French
- ENVI-F5001 **Questions approfondies de Gestion de l'Environnement** | Thomas BAULER (Coordinator), Wouter ACHTEN and Maria MANCILLA GARCIA  
 5 credits [lecture: 12h, tutorial classes: 22h, practical work: 22h] second term French
- ENVI-F501 **Projet interdisciplinaire** | Thomas BAULER (Coordinator), Wouter ACHTEN and Maria MANCILLA GARCIA  
 5 credits [tutorial classes: 16h, project: 120h] academic year French

## Cours optionnels de la finalité Gestion de l'environnement

Choisir 15 crédits en Bloc 2

*Up to 15 credits chosen from the following*

- BING-F1001 (optional) **Sciences de la terre et du bioingénieur, environnement et société** | Pierre REGNIER (Coordinator), Jean-Michel DECROLY, Christian HERMANS, Frank PATTYN and Alizée Roobaert  
 5 credits [lecture: 48h, seminars: 12h] first term French
- BIOL-F4005 (optional) **Social-ecological systems** | Farid DAHDOUH-GUEBAS (Coordinator)  
 5 credits [lecture: 30h, tutorial classes: 6h, field trips: 12h] first term English
- ENVI-F4001 (optional) **Fonctionnement, gestion et traitement des environnements aquatiques** | Nathalie GYPENS (Coordinator) and Frédéric DEBASTE  
 5 credits [lecture: 48h, field trips: 12h] second term French
- ENVI-F5002 (optional) **Psychologie de l'environnement, et de la communication** | Sabine POHL (Coordinator)  
 5 credits [lecture: 24h] first term French
- ENVI-F529 (optional) **Ressources: Genèse et environnement** | Nadine MATTIELLI (Coordinator), Corentin CAUDRON and Michel HUART  
 5 credits [lecture: 22h, practical work: 6h, field trips: 12h] second term French
- ENVI-L4110 (optional) **Compartiments environnementaux, production, consommation et leurs impacts sur la santé** | Olivier VANDENBERG (Coordinator) and Valérie ROORYCK  
 5 credits [lecture: 12h, practical work: 48h] second term French

