

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

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

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

 Activities on other sites : **NO**

 Main study domain : **Sciences**

 Organized by: **Faculty of bioscience engineering (AGRO)**

 Programme acronym: **ENVI2MC** - Francophone Certification Framework: 7

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## ENVI2MC - Introduction

### Introduction

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## ENVI2MC - Teaching profile

### Learning outcomes

A general presentation of the interdisciplinary specialized master in science and management of the environment and sustainable development is available on the portal of the [Faculty of Bioscience engineering](#).

The specialized master in science and management of the environment and sustainable development offers both recent graduate and experienced professionals the opportunity to learn the basics of environmental science, and the management of environmental issues, which are complex in nature and involve many disciplines. The master is organized to be accessible to graduates (master level) of all faculties, including the sector of science and technology, the sector of human sciences or the health sciences sector, as well as higher schools.

At the end of the training, the graduate in science and management of the environment will be able to contribute to the management of environmental issues: to investigate the problem and analyze it in its entirety, to summarize the positions of the various stakeholders, including experts, communicate them in an understandable way to all parties, synthesize and propose solutions, and argue them to reach a consensus between all stakeholders.

The student's program includes an upgrade based on his or her basic training. This upgrade aims at acquiring basic knowledge in the various disciplines involved in environmental issues: science and technology (chemistry, biology, ecology, computer science, statistics, geography ...) and human sciences (sociology, law, economics, philosophy ...).

Part of the program aims to address environmental issues through different disciplines (economics, law, politics, toxicology, science and technology). Finally, part of the program also aims to develop its ability to approach environmental issues between disciplines, integrating their respective contributions (interdisciplinary approach), and to seek and negotiate consensus solutions with different stakeholders.

On successful completion of this programme, each student is able to :

1. To analyse the scientific, technical and non-technical dimensions of an environmental problem.
  - 1.1 To identify the stakeholders concerned by the environmental issue: the general public, scientific experts, non-governmental organisations, public authorities, companies, etc.
  - 1.2 To gather and synthesize information, in French and English, on the various dimensions of the environmental issue: scientific, technical/technological, human, etc.
  - 1.3 To use basic theoretical concepts in science and technology in an appropriate manner: chemistry, biology, ecology, toxicology, IT, statistics, geography, etc. related to the environmental issue.
  - 1.4 To use basic theoretical concepts in human sciences in an appropriate manner: sociology, philosophy, law, economics, etc. related to the environmental issue.
  - 1.5 To communicate with different stakeholders and with independent experts, to identify the elements underlying their respective viewpoints and to incorporate them into the analysis.
  - 1.6 To establish links between the basic concepts in science and technology and the human sciences to understand and explain the environmental issue as a whole.
  - 1.7 To work with colleagues to interpret all the aspects and facets of the environmental issue.
2. To construct and develop one or more solutions to tackle the environmental issue, taking into account the technological and non-technological aspects.
  - 2.1 To synthesize various types of documents related to an environmental issue (scientific and technical / technological and humanities)
  - 2.2 To summarise the views of stakeholders involved in the environmental issue.
  - 2.3 To develop innovative proposals of solutions to the environmental issue with the support of stakeholders, by combining the data and scientific, technical / technological and non-technical approaches available.
  - 2.4 To select in a substantiated way (self-assessment) the proposals for solutions that best fulfil the different dimensions of the environmental issue (scientific, technical / technological and non-technical).
  - 2.5 To project herself/himself in the position of the different stakeholders and, in relation with each of them, to decipher their views and positions with regard to the environmental issue and anticipate their reactions to new data and proposals.
  - 2.6 To evaluate solutions against all criteria (feasibility, consistency, stakeholders, etc.) and dimensions (scientific, technical / technological and humanities).
3. To communicate the proposed environmental solutions to the stakeholders.
  - 3.1 To present the analysis of the environmental problem and the proposed solutions orally and in writing, in a substantiated manner using modern communication techniques.
  - 3.2 To adapt the language and specific vocabulary taking into consideration the cultural differences of the conversational partners: colleagues, general public, scientific experts, non-governmental organisations, public authorities, business representatives, etc.
4. To negotiate a consensual environmental solution between stakeholders, based on the various solutions proposed.
  - 4.1 To interpret the views of stakeholders on the environmental issue.
  - 4.2 To arbitrate the views of stakeholders on the environmental solutions.
  - 4.3 To convince stakeholders through argumentation on a common solution to the environmental issue.
  - 4.4 To make choices, alone or within a team, taking into account all the dimensions and all the stakeholders, targeting to reach a consensual solution.

## Programme structure

### Learning Outcomes

The Specialization Master in science and management of the environment and sustainable development trains graduates able to dialogue (to understand and to be understood) with experts from different disciplines involved in the management of environmental issues and sustainable development (economics, environmental sciences, ethical, societal and technical aspects in a systemic approach), and with all stakeholders. The master prepares them to make decisions and to take action to solve problems in the fields of environment and sustainable development. This training therefore entails a solid teaching sweeping covering all aspects related to natural sciences related to the environment, as well as economics, social, demographic, legal and political aspects, all related to the environment.

The program of the interdisciplinary Specialized Master in science and management of the environment and sustainable development is structured as follows:

#### 1. The core of the curriculum :

- mandatory common specific activities, disciplinary and interdisciplinary
- interdisciplinary integrative activities
- an internship in a professional environment
- a personal report on the internship

2. Disciplinary reinforcement activities. These activities allow students from different backgrounds to learn the basics in disciplines that have not been the subject of their initial training. Students must have completed training in these various disciplines; they can be exempted in the framework of the ENVI2MC Master if they have succeeded (> 12/20) equivalent courses at the university level.

3. A program of courses chosen within a pre-established field or selected among courses offered in several fields

Each individual program must be approved by the program coordinator.

## ENVI2MC Programme

## Detailed programme by subject

### CORE COURSES

- Mandatory
- ⊗ Optional
- △ Not offered in 2022-2023
- ⊙ Not offered in 2022-2023 but offered the following year
- ⊕ Offered in 2022-2023 but not the following year
- △ ⊕ Not offered in 2022-2023 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

### ⊗ Activités de mise à niveau des compétences

Activités qui doivent avoir été obligatoirement suivies (durant les études antérieures ou durant le master) pour obtenir le diplôme de master en science et gestion de l'environnement et du développement durable. Des dispenses sont possibles en fonction du diplôme antérieur, des cours équivalents déjà suivis et des grades obtenus. Pour chaque activité, un cours doit être choisi parmi la liste proposée.

Year

1 2

### ⊗ Biologie : un cours au choix

LBIO1114	Introduction to biology	Patrick Dumont Caroline Nieberding	FR [q2] [30h+7.5h] [3 Credits]	X	X
LPSP1005	General biology, including elements of human genetics	André Moens	FR [q1] [30h] [4 Credits]	X	X

### ⊗ Chimie : un cours au choix

LIEPR1001	General chemistry and biomolecules	Patrick Henriët	FR [q1] [30h+15h] [5 Credits]	X	X
LBIR1140	Chimie générale 1	Pierre Delmelle (coord.) Charles-André Fustin Michel Ghislain (coord.)	FR [q1] [30h+30h] [6 Credits]	X	X
LINGE1115	Chemistry (Part 1)	Yaroslav Filinchuk	FR [q1] [50h+10h] [5 Credits]	X	X
LINGE1223	Chemistry	Jean-François Gohy	FR [q2] [20h+10h] [3 Credits]	X	X

### ⊗ Ecologie : un cours au choix

Le cours LBIO1117 est recommandé.

LBIO1117	Ecology I	Renate Wesselingh	FR [q2] [30h+10h] [4 Credits]	X	X
LBIO1217	Ecology II	Thierry Hance	FR [q2] [30h+10h] [3 Credits]	X	X
LBIR1354	Biologie des interactions	Anne-Laure Jacquemart (coord.) Anne Legrève	FR [q2] [22.5h+15h] [3 Credits]	X	X

### ⊗ Economie : un cours au choix

LBIR1260	Principles of economics	Goedele Van den Broeck	FR [q1] [30h+15h] [4 Credits] > French-friendly	X	X
LECGE1115	Political Economics	Rigas Oikonomou Gonzague Vannoorenberghe	FR [q1] [45h+15h] [5 Credits]	X	X
LPSP1009	Economy: education, health and work	Barbara Cresti Barbara Cresti (compensates) François Maniquet	FR [q2] [30h] [3 Credits]	X	X

### ⊗ Philosophie : un cours au choix

Le cours LSC1120A est recommandé. L'étudiant-e peut éventuellement choisir d'autres cours de Philosophie offerts dans la mineure en philosophie, en étant attentif aux prérequis et aux compétences dont il-elle dispose sur base de sa formation antérieure.

LCOPS1124	Philosophy	Sylvain Camilleri Jean-Michel Counet (compensates) Nathalie Frogneux	FR [q2] [30h] [5 Credits]	X	X
LSC1120A	Philosophy	Alexandre Guay	FR [q1] [45h] [2 Credits]	X	X
LSC2220	Philosophy of science	Alexandre Guay	FR [q2] [30h] [2 Credits]	X	X

### ⊗ Sociologie : un cours au choix

Le cours LPSP1007 est recommandé.

LPOLS1121	Sociologie du comportement politique	Benoît Rihoux	FR [q2] [22.5h] [4 Credits]	X	X
LPSP1007	Sociology: education, health and work	Marc Zune	FR [q1] [30h] [3 Credits]	X	X
LDROI1221	Introduction to Sociology	Eric Mangez Benoît Rihoux	FR [q1] [45h] [3 Credits]	X	X

### ⊗ Géographie : un cours au choix

L'étudiant-e peut éventuellement choisir d'autres cours de Géographie, en étant attentif aux prérequis et aux compétences dont il-elle dispose sur base de sa formation antérieure.

LGEO1221	Elements of human geography	Marie-Laurence De Keersmaecker	FR [q1] [30h+30h] [5 Credits]	X	X
LGEO2110	Mondialisation, développement et environnement	Eric Lambin	FR [q1] [30h+30h] [5 Credits]	X	X

### ⊗ Informatique appliquée : un cours au choix

LBIR1271	Projet intégré en informatique et mathématiques appliquées	Patrick Bogaert Emmanuel Hanert (coord.) Marnik Vanclooster	FR [q2] [30h+30h] [5 Credits]	X	X
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				Year	
				1	2
⌘ LECGE1215	Information Technology in Economics and Management	Manuel Kolp Marco Saerens	FR [q2] [30h+20h] [4 Credits] 🌐	x	x
<b>⌘ Statistiques et analyse des données : un cours au choix</b>					
⌘ LBIR1212	Probabilities and statistics (I)	Patrick Bogaert	FR [q1] [30h+15h] [4 Credits] 🌐	x	x
⌘ LECGE1114	Statistics in Economics and Management I	Alexandre Jacquemain (compensates Marie-Paule Kestemont) Marie-Paule Kestemont	FR [q2] [30h+30h] [5 Credits] 🌐	x	x
⌘ LEPL1108	Discrete mathematics and probability	Jean-Charles Delvenne Olivier Pereira	FR [q1] [30h+30h] [5 Credits] 🌐	x	x
⌘ LMAT1271	Calculation of probability and statistical analysis	Rainer von Sachs	FR [q2] [30h+30h] [6 Credits] 🌐 > English-friendly	x	x
⌘ LMAT1375	Biometry		FR [q2] [25h+25h] [4 Credits] ⚠️ 🌐	x	x

**⌘ Anglais : un cours au choix**

Les étudiants-es qui n'ont pas de dispense de cours d'anglais DOIVENT contacter le Professeur d'anglais AU DEBUT DU 1ER QUADRIMESTRE pour déterminer le cours le plus adapté à leur situation. A priori, le choix se fera dans l'ordre de la liste proposée ci-dessous soit une priorité pour le cours LANGL1882.

⌘ LANGL1882	English : reading and listening comprehension of texts in Bioengineering	Amandine Dumont Sandrine Meirlaen (coord.) Charlotte Peters Anne-Julie Toubeau (coord.)	EN [q2] [30h] [2 Credits] 🌐	x	
⌘ LANGL1881	English : reading and listening comprehension of texts in Bioengineering	Amandine Dumont Ariane Halleux Sandrine Meirlaen (coord.) Anne-Julie Toubeau (coord.)	EN [q1] [30h] [2 Credits] 🌐	x	
⌘ LANG1861	English: reading and listening comprehension of scientific texts	Catherine Avery (coord.) Fanny Desterbecq Amandine Dumont (coord.) Emeline Pierre Marc Pivnik Marine Volpe	EN [q2] [10h] [2 Credits] 🌐	x	
⌘ LANG1862	English: reading and listening comprehension of scientific texts	Ahmed Adriouèche (coord.) Catherine Avery Amandine Dumont Ariane Halleux (coord.)	EN [q1] [30h] [2 Credits] 🌐	x	

**o Tronc commun (88 credits)**

**o Pollution et environnement (11 credits)**

o LB RTE2201	Human and environmental toxicology	Cathy Debier (coord.) Philippe Hantson	FR [q1] [30h+7.5h] [4 Credits] 🌐 > French-friendly	x	
o LENVI2012	Environment Pollution	Yannick Agnan Patrick Gerin (coord.)	FR [q2] [45h+30h] [7 Credits] 🌐 > English-friendly	x	

**o Economie et environnement: choisir un cours parmi les deux suivants: (5 credits)**

⌘ LBIR1362	Environmental Economics	Frédéric Gaspard	FR [q2] [30h+7.5h] [5 Credits] 🌐	x	
⌘ LESPO2103	Environment and Global Economy	Elisabetta Cornago	FR [q2] [30h] [5 Credits] 🌐	x	

**o Droit et environnement (10 credits)**

o LDROP2061	Sustainable Development Law	Charles-Hubert Born	FR [q2] [30h] [5 Credits] 🌐	x	
o LDROP2063	Sectoral Environmental Law	Valérie Dupont Damien Jans	FR [q2] [30h] [5 Credits] 🌐	x	

**o Gestion de l'environnement (5 credits)**

				Year	
				1	2
○ LENVI2010	Public strategies for sustainable development	Marie-Paule Kestemont (coord.) Thomas Pardoen Benoît Rihoux Valérie Swaen	EN [q1] [15h] [2 Credits]	x	
○ LENVI2011	Méthodes d'évaluation et de gestion environnementale	Jean-Pierre Tack	EN [q2] [30h] [3 Credits]	x	
<b>○ Communication et négociation (4 credits)</b>					
○ LENVI2004	Atelier en communication environnementale et en gestion des conflits par la négociation	Nathalie Frogneux	EN [q1] [20h] [4 Credits]	x	
<b>○ Activités interdisciplinaires intégratives (53 credits)</b>					
○ LENVI2002	Seminars in environmental science and management	Marie-Paule Kestemont Caroline Nieberding (coord.) Jean-Pierre Raskin Valérie Swaen Jean-Pascal van Ypersele de Strihou	EN [q1] [15h] [2 Credits]	x	
○ LENVI2101	Sociétés, populations, environnement, développement: problématiques et approches interdisciplinaires	Denis Dochain Nathalie Frogneux (coord.) Julie Hermesse Caroline Nieberding Jean-Pierre Raskin	EN [q1] [45h] [6 Credits]	x	
○ LENVI2099	Projet personnel de fin d'études		EN [] [] [15 Credits]		x
○ LENVI2199	Stage professionnel	Dimitri Lederer Caroline Nieberding (coord.)	EN [] [15h] [30 Credits]		x

### ⌘ Cours aux choix

Les crédits des cours au choix viendront compléter le total des crédits des cours obligatoires pour atteindre au moins 120 crédits. Les étudiant-es peuvent choisir librement les cours proposés ci-dessous (attention aux horaires!). Les étudiant-e-s sont responsables de s'assurer qu'ils-elles disposent bien des bases nécessaires pour suivre les cours qu'ils-elles choisissent.

### ⌘ Activités en approches sociétales de la transition

⌘ LBIR2050	Enjeux du développement durable et de la transition	Philippe Baret (coord.) Nathalie Delzenne Valérie Swaen	EN [q2] [30h] [5 Credits]	x	x
⌘ LBRAI2210	Microeconomics of Development	Frédéric Gaspart	EN [q1] [30h] [3 Credits] > French-friendly	x	x
⌘ LBRAT2103	Sociology of the actors and the rural territories	Yves Hanin	EN [q1] [30h] [3 Credits]	x	x
⌘ LENVI2006	Sociologie de l'environnement	Françoise Bartiaux	EN [q2] [15h+15h] [3 Credits]	x	x

### ⌘ Activités en analyse des situations environnementales

⌘ LBIR1351	Introduction to systems analysis	Philippe Baret	EN [q1] [10h+20h] [3 Credits]	x	x
⌘ LBIRE2105	Assessment of water - soil - air quality	Henri Halen Philippe Maetz Xavier Rollin (coord.)	EN [q1] [30h+0h] [3 Credits]	x	x
⌘ LMECA2645	Major technological hazards in industrial activity.	Denis Dochain Aude Simar	EN [q2] [30h] [3 Credits]	x	x

### ⌘ Activités en technologies de l'énergie, des traitements et du recyclage

⌘ LENVI2007	Renewable energy sources	Emmanuel De Jaeger Patrick Gerin (coord.) Hervé Jeanmart	EN [q1] [45h+15h] [5 Credits] > French-friendly	x	x
⌘ LGCIV2073	Hydrogeology and Geoenvironment	Pierre-Yves Bolly	EN [q1] [30h] [3 Credits] > French-friendly	x	x
⌘ LMAPR2001	Project "chemical & materials engineering for a sustainable future"	Juray De Wilde Pascal Jacques Alain Jonas Patricia Luis Alconero Samuel Poncé	EN [q2] [45h+60h] [10 Credits] > French-friendly	x	x

				Year	
				1	2
✘ LMAPR2001A	Project "chemical & materials engineering for a sustainable future"	Juray De Wilde Pascal Jacques Alain Jonas Patricia Luis Alconero Samuel Poncé	EN [q2] [22.5h+30h] [5 Credits]  > French-friendly	X	X
✘ LMAPR2647	Sustainable treatment of industrial and domestic waste: Fundamentals	Olivier Françoisse Patricia Luis Alconero Olivier Noiset Benoît Stenuit	EN [q1] [30h+15h] [5 Credits]  > French-friendly	X	X

## ✘ Activités en climat : état, pression et réponses

✘ LBIR1328	Climatology and hydrology applied to agronomy and the environment	Alice Alonso (compensates) Marnik Vanclooster Charles Bielders (coord.) Hugues Goosse	EN [q1] [45h+22.5h] [6 Credits]  > French-friendly	X	X
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## ✘ Un cours au choix parmi les deux suivants :







Le cours LPHYS2162 peut également être suivi en partie pour 3 crédits.

✘ LENVI2005	Changements climatiques: impacts et solutions	Pierre Delmelle (coord.) Philippe Marbaix Jean-Pascal van Ypersele de Strihou	EN [q2] [30h] [3 Credits] 	X	X
✘ LPHYS2162	Introduction to the physics of the climate system and its modelling	Hugues Goosse Francesco Ragone	EN [q1] [22.5h+22.5h] [5 Credits]  > French-friendly	X	X

## ✘ Activités en écologie et agriculture

✘ LBIRA2109	Agrarian systems and farm	Pierre Bertin	EN [q1] [30h+0h] [3 Credits]  > English-friendly	X	X
✘ LBOE2120	Conservation de la biodiversité	Nicolas Schtickzelle	EN [q1] [36h+12h] [4 Credits] 	X	X
✘ LBOE2166	Lutte biologique	Claude Bragard Thierry Hance	EN [q2] [12h+24h] [3 Credits] 	X	X
✘ LBOE2292	Modélisation écologique et évolutive	Renate Wesselingh	EN [q1] [12h+36h] [4 Credits] 	X	X
✘ LINMA2510	Mathematical ecology	Eric Deleersnijder Emmanuel Hanert Thierry Van Effelterre	EN [q2] [30h+22.5h] [5 Credits]  > French-friendly	X	X





## ✘ Activités en gestion du développement territorial

✘ LBRAT2101	Suburban and rural space development	Pierre Defourny (coord.) Yves Hanin Marie Pairon	EN [q1] [45h+15h] [5 Credits] 	X	X
✘ LBIRE2102	Applied geomatics	Pierre Defourny	EN [q1] [30h+22.5h] [4 Credits]  > English-friendly	X	X
✘ LGEO1343	Earth observation by satellite	Eric Lambin	EN [q1] [30h+30h] [5 Credits] 	X	X
✘ LGEO2210	Shaping sustainable urban spaces	Marie-Laurence De Keersmaecker Yves Hanin	EN [q1] [30h] [3 Credits] 	X	X
✘ LGEO2211	Advanced statistical methods in geography	Christian Hafner	EN [q1] [30h+30h] [5 Credits] 	X	X
✘ LURBA2915	Strategic planning (course - workshop)	Marie-Laurence De Keersmaecker Pierre Defourny Yves Hanin Michaël Van Cutsem	EN [q1] [60h+45h] [8 Credits] 	X	X

## ✘ Un cours au choix parmi les deux suivants :

✘ LGEO2120	Applied geomorphology	Bas van Wesemael	EN [q1] [30h+30h] [5 Credits] 	X	X
✘ LGEO2185	Advanced geo-processing	Kristof Van Oost	EN [q2] [30h+30h] [5 Credits] 	X	X

## ✘ Activités en stratégies publiques

✘ LSPED2010	Space, settlement and resources	Thierry Eggerickx Etienne Verhaegen	EN [q2] [30h] [5 Credits] 	X	X
✘ LADPU2225	Environmental Politics and Policies	David Aubin	EN [q2] [30h] [5 Credits]  	X	X
✘ LURBA3011A	Actors, territories and development contexts		EN [q1] [30h] [3 Credits] 	X	X

## ✘ Activités en santé publique et environnement



				Year	
				1	2
⌘ LGEO2230	Géographie médicale et de la santé	Sophie Vanwambeke	EN [q1] [30h+30h] [5 Credits] 🌐	x	x
<b>⌘ Un cours au choix parmi les deux suivants :</b>					
⌘ LDEMO2610	Populations and health	Bruno Masquelier	EN [q1] [30h] [5 Credits] 🌐	x	x
⌘ WFSP2238P	Advanced epidemiology (UCLouvain)	Niko Speybroeck	EN [q2] [20h+16h] [4 Credits] 🌐	x	x
<b>⌘ Activités d'intégration professionnelle et de diversification</b>					
<i>Les étudiants qui voudraient suivre d'autres cours universitaires en lien avec l'environnement et le développement durable peuvent en faire la proposition au coordinateur.</i>					
○ LBIR2004	Masters Internship	Damien Debecker (coord.) Xavier Draye François Gaspard Anne-Laure Jacquemart	EN [q2] [20h] [10 Credits] 🌐 > English-friendly	x	x

## The programme's courses and learning outcomes

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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.

## ENVI2MC - Information

### Access Requirements

*In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.*

*Decree of 7 November 2013 defining the landscape of higher education and the academic organization of studies.*

*The admission requirements must be met prior to enrolment in the University.*

*Unless explicitly mentioned, the bachelor's, master's and licentiate degrees listed 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](#)

### General access requirements

Translated from [https://www.galilex.cfwb.be/fr/leg\\_res\\_01.php?ncda=39681&referant=I02](https://www.galilex.cfwb.be/fr/leg_res_01.php?ncda=39681&referant=I02)

Art. 112. § 1. In accordance with the general requirements established by the academic authorities, students who have:

1. a master's degree;
2. an academic degree similar to the one mentioned in the preceding paragraph awarded by a higher education institution in the Flemish Community or the German-speaking Community, or by the Royal Military Academy, by virtue of a decision of the academic authorities and in accordance with any additional requirements they may establish;
3. a foreign academic degree recognised as equivalent to those mentioned in paragraphs 1 and 2 pursuant to this decree, a European directive, an international convention or other legislation, in accordance with the same requirements.

The additional admission requirements referred to in paragraph 2 are intended to ensure that the student has acquired the knowledge and skills required for the studies in question. When the additional admission requirements consist of one or more additional course units, these may not represent more than 60 additional credits for the student, taking into account all the credits that he or she may otherwise use for admission. These course units are part of the student's study programme.

§ 2. In accordance with the general requirements established by the academic authorities, a student who holds a title, diploma, degree or certificate of higher education, in the French Community or outside it, which does not grant him or her eligibility for admission to a specialised master's course by virtue of the preceding paragraph, may nevertheless be admitted by the jury of the course in question, in accordance with the additional requirements that it establishes, if the totality of the higher education that he or she has completed or the expertise that he or she has acquired is valued by the jury to be at least 240 credits.

§ 3. By way of derogation from these general requirements, the academic authorities may also admit to a specialised master's course holders of a title, diploma, degree or certificate awarded outside the French Community which, in that system of origin, grants direct eligibility for postgraduate studies, even if the studies sanctioned by these credentials are not organised into distinct degree courses or within a time period of at least five years.

### Specific access requirements

Before initiating any application for admission to this specific program, you are invited to read carefully the general information on the master and the "Frequently Asked Questions" (FAQ) listed on the website of this program. It is strongly recommended to consult this source of information to prepare your application.

Applicants with a degree delivered outside the French Community of Belgium are required to demonstrate sufficient knowledge of the French language (B1 level of the Common European Framework of Reference).

Students who have completed postgraduate training outside the French Community of Belgium and have obtained at least 70% on average in their home university have the opportunity to apply for admission in the program. This admission criterion is strictly applied. However, it may be waived with significant professional experience and duly attested quality. For more information, please contact the Academic Advisor.

The master is spread over two years and there is no possibility to follow only the 2nd year of master.

If you have not found answers to your questions, you can contact us at the following address: [info-agro@uclouvain.be](mailto:info-agro@uclouvain.be)

#### Specific conditions

In addition to the general access conditions described above, the student must have distinguished himself during his master studies. He / she will have to submit to the program coordinator an application file including

- his/her curriculum vitae,
- his/her transcripts of results,
- the title, the abstract (maximum 1 page) and the date of defense of his/her master thesis and
- a letter explaining his/her motivation (arguments that lead him/her to apply for the ENVI2MC Master).

## Teaching method

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The programme for the Master in Science and Management of the Environment and Sustainable Development includes a group of courses which are designed to provide students with basic knowledge of the different disciplines involved in the management of environmental problems and of sustainable development. A significant proportion of the courses are organized by different partner faculties. In this way, courses are given by specialists of each discipline.

The training programme focuses particularly on training students to use their knowledge and skills, through different kinds of individual and group works and also through a wide roleplay project (LENVI 2101, 6 credits), during which students have to investigate and deal with the many different aspects of a real environmental problem; they have then to negotiate the technical, socio-economic and institutional solutions between all the involved parties (stake-holders).

The professional internship and its report are a final achievement of the training, allowing students to put their knowledge and skills into practice to solve real environmental issues.

## Evaluation

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**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".**

Examinations for each activity. The precise form is outlined, when necessary, in the relevant course specification.

## Mobility and/or Internationalisation outlook

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There is an active exchange agreement with the University of Sherbrooke (Quebec, Canada).

The programme traditionally welcomes international students.

## Possible trainings at the end of the programme

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Although it is open to certain bachelors, the Master in Science and Management of the Environment and Sustainable Development follows any first Master (120) in human sciences, applied sciences and technologies or health sciences. Its strong interdisciplinary nature will provide second cycle students who wish to have a professional career in environment with useful additional knowledge in the areas of science and integrated management of environmental issues.

This Master does not specifically lead to enter PhD studies without a more specifically research oriented master.

## Contacts

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Toute information complémentaire à propos de ce master est à adresser au coordinateur du programme, Prof. P. Gerin, Croix du Sud 2, L7.05.19, 1348 Louvain-la-Neuve, [coordenvi@climate.be](mailto:coordenvi@climate.be).

## Curriculum Management

Faculty

Structure entity

Denomination

Sector

Acronym

Postal address

SST/AGRO

Faculty of bioscience engineering (AGRO)

Sciences and Technology (SST)

AGRO

Croix du Sud 2 - bte L7.05.01

1348 Louvain-la-Neuve

Tel: +32 (0) 10 47 37 19 - Fax: +32 (0) 10 47 47 45

<http://www.uclouvain.be/agro>

Website

Mandate(s)

- Dean : Christine Dupont
- Administrative director : Carole Dekelver

Commission(s) of programme

- Commission de programme - Master Bioingénieur-Sciences agronomiques (BIRA)

- Commission de programme - Master Bioingénieur-Chimie et bioindustries ([BIRC](#))
- Commission de programme - Master Bioingénieur-Sciences & technologies de l'environnement ([BIRE](#))
- Commission de programme - Bachelier en sciences de l'ingénieur, orientation bioingénieur ([CBIR](#))
- Commission de programme interfacultaire en Sciences et gestion de l'environnement ([ENVI](#))
- Fermes universitaires de Louvain ([FERM](#))

Academic supervisor: Patrick Gerin

Jury

- Charles Bielders

Useful Contact(s)

- Patrick Gerin

