

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

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 synthetize 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 Toproject 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 2021-2022
- Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- [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.

❖ Biologie : un cours au choix

| | | | | | Year 1 2 |
|------------|---|---------------------------------------|--------------------------------|-----|-------------|
| ❖ 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 Henriet | 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 Caroline Nieberding Hans Van Dyck Renate Wesselingh (coord.) | FR [q2] [30h+10h] [3 Credits] | x x | |
| ❖ LBIR1354 | Biologie des interactions | Anne-Laure Jacquemart (coord.) Anne Legrèvre | FR [q2] [22.5h+15h] [3 Credits] | x x | |

❖ Economie : un cours au choix

| | | | | | |
|-------------|-------------------------------------|--|-------------------------------|-----|--|
| ❖ LBIR1260 | Principles of economics | Goedele Van den Broeck | EN [q1] [30h+15h] [4 Credits] | 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 | Nathalie Frogneux Charlotte Luyckx (compensates Sylvain Camilleri) | FR [q2] [30h] [5 Credits] | x x | |
| ❖ LSC1120A | Philosophy | Alexandre Guay | FR [q1] [30h] [2 Credits] | x x | |
| ❖ LSC2220 | Philosophy of science | Pieter Thyssen (compensates Alexandre Guay) | EN [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

| | | | | | Year 1 2 |
|-------------|--|---|-------------------------------|-----|-------------|
| ☒ LBIR1271 | Projet intégré en informatique et mathématiques appliquées | Patrick Bogaert Emmanuel Hanert (coord.) Marnik Vanclooster | FR [q2] [30h+30h] [5 Credits] | x x | |
| ☒ LECGE1215 | Information Technology in Economics and Management | Manuel Kolp Marco Saerens | FR [q1] [30h+20h] [4 Credits] | x x | |

☒ Statistiques et analyse des données : un cours au choix

| | | | | |
|-------------|---|--|---------------------------------|-----|
| ☒ LBIR1212 | Probabilities and statistics (I) | Patrick Bogaert | FR [q1] [30h+15h] [4 Credits] | x x |
| ☒ LECGE1114 | Statistics in Economics and Management I | 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] | x x |
| ☒ LMAT1375 | Biometry | | FR [q2] [25h+25h] [4 Credits] Δ | 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 LANG1882.

| | | | | |
|------------|--|---|---------------------------|---|
| ☒ LANG1882 | English : reading and listening comprehension of texts in Bioengineering | Amandine Dumont Ariane Halleux Sandrine Meirlaen (coord.) Charlotte Peters Anne-Julie Toubeau (coord.) | EN [q2] [30h] [2 Credits] | x |
| ☒ LANG1881 | English : reading and listening comprehension of texts in Bioengineering | Adrien Kefer (compensates Laura Lievens) Sandrine Meirlaen (coord.) Hila Peer Anne-Julie Toubeau (coord.) | EN [q1] [30h] [2 Credits] | x |
| ☒ LANG1861 | English: reading and listening comprehension of scientific texts | Fanny Desterbecq (coord.) Amandine Dumont (coord.) Marc Piwnik | EN [q2] [10h] [2 Credits] | x |
| ☒ LANG1862 | English: reading and listening comprehension of scientific texts | Ahmed Adrioueche (coord.) Catherine Avery Amandine Dumont Ariane Halleux (coord.) Adrien Kefer (compensates Laura Lievens) | EN [q1] [30h] [2 Credits] | x |

○ Tronc commun (88 credits)**○ Pollution et environnement (11 credits)**

| | | | | |
|-------------|------------------------------------|--|--------------------------------|---|
| ○ LBRTE2201 | Human and environmental toxicology | Cathy Debier (coord.) Philippe Hantson | EN [q1] [30h+7.5h] [4 Credits] | x |
| ○ LENVI2012 | Environment Pollution | Yannick Agnan Patrick Gerin (coord.) Nathalie Kruyts | EN [q2] [45h+30h] [7 Credits] | x |

○ Economie et environnement (5 credits)

| | | | | |
|------------|-------------------------|------------------|--------------------------------|---|
| ○ LBIR1362 | Environmental Economics | Frédéric Gaspart | FR [q2] [30h+7.5h] [5 Credits] | x |
|------------|-------------------------|------------------|--------------------------------|---|

○ Droit et environnement (10 credits)

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

○ Gestion de l'environnement (5 credits)

| | | | | | Year 1 2 |
|-------------|--|---|---------------------------|---|-------------|
| ● LENVI2010 | Public strategies for sustainable development | Marie-Paule Kestemont (coord.) Benoît Rihoux Valérie Swaen Jean-Pascal van Ypersele de Strihou | FR [q1] [15h] [2 Credits] | x | |
| ● LENVI2011 | Méthodes d'évaluation et de gestion environnementale | Jean-Pierre Tack | FR [q2] [30h] [3 Credits] | x | |

● Communication et négociation (4 credits)

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|-------------|---|-------------------------------------|---------------------------|---|--|
| ● LENVI2004 | Atelier en communication environnementale et en gestion des conflits par la négociation | Jean-Pascal van Ypersele de Strihou | FR [q1] [20h] [4 Credits] | x | |
|-------------|---|-------------------------------------|---------------------------|---|--|

● Activités interdisciplinaires intégratives (53 credits)

| | | | | | |
|-------------|--|--|---------------------------|---|--|
| ● LENVI2002 | Seminars in environmental science and management | Denis Dochain Marie-Paule Kestemont Caroline Nieberding Valérie Swaen Jean-Pascal van Ypersele de Strihou (coord.) | FR [q1] [15h] [2 Credits] | x | |
| ● LENVI2101 | Sociétés, populations, environnement, développement: problématiques et approches interdisciplinaires | Denis Dochain Nathalie Frogneux Julie Hermesse Pierre-Joseph Laurent Caroline Nieberding Jean-Pierre Raskin Jean-Pascal van Ypersele de Strihou (coord.) | FR [q1] [45h] [6 Credits] | x | |
| ● LENVI2099 | Projet personnel de fin d'études | | FR [] [] [15 Credits] | x | |
| ● LENVI2199 | Stage professionnel | Caroline Nieberding Jean-Pascal van Ypersele de Strihou (coord.) | FR [] [15h] [30 Credits] | x | |

❖ Cours aux choix

Les crédits des cours aux 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 | FR [q2] [30h+30h] [5 Credits] | x | x |
| ❖ LBRAI2210 | Microeconomics of Development | Frédéric Gaspart | EN [q1] [30h] [3 Credits] | x | x |
| ❖ LBRAT2103 | Sociology of the actors and the rural territories | Yves Hanin | FR [q1] [30h] [3 Credits] | x | x |
| ❖ LENVI2006 | Sociologie de l'environnement | Françoise Bartiaux | FR [q2] [15h+15h] [3 Credits] | x | x |

❖ Activités en analyse des situations environnementales

| | | | | | |
|-------------|---|---|-------------------------------|---|---|
| ❖ LBIR1351 | Introduction to systems analysis | Philippe Baret | FR [q1] [10h+20h] [3 Credits] | x | x |
| ❖ LBIRE2105 | Water - soil - air quality's Evaluation | Henri Halen Philippe Maetz Xavier Rollin (coord.) | FR [q1] [30h+0h] [3 Credits] | x | x |
| ❖ LMECA2645 | Major technological hazards in industrial activity. | Denis Dochain | FR [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] | x | x |
| ❖ LGCIV2073 | Hydrogeology and Geoenvironment | Pierre-Yves Bolly | EN [q1] [30h] [3 Credits] | x | x |
| ❖ LMAPR2001 | Project "chemical & materials engineering for a sustainable future" | Juray De Wilde Pascal Jacques Alain Jonas Patricia Luis Alconero | EN [q2] [45h+60h] [10 Credits] | x | x |

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

❖ Activités en climat : état, pression et réponses

| | | | | | |
|------------|---|--|---------------------------------|-----|--|
| ❖ LBIR1328 | Climatology and hydrology applied to agronomy and the environment | Alice Alonso (compensates Marnik Vandcooster) Charles Bielders (coord.) Hugues Goosse | EN [q1] [45h+22.5h] [6 Credits] | x x | |
|------------|---|--|---------------------------------|-----|--|

❖ 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 | Yannick Agnan (compenses Pierre Delmelle) Philippe Marbaix Jean-Pascal van Ypersele de Strihou (coord.) | FR [q2] [30h] [3 Credits] | x x | |
| ❖ LPHYS2162 | Introduction to the physics of the climate system and its modelling | Hugues Goosse Jean-Pascal van Ypersele de Strihou | EN [q1] [22.5h+22.5h] [5 Credits] | x x | |

❖ Activités en écologie et agriculture

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

❖ Activités en gestion du développement territorial

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|-------------|---|---|---------------------------------|-----|--|
| ❖ LBRAT2101 | Suburban and rural space development | Pierre Defourny (coord.) Yves Hanin Marie Pairon | FR [q1] [45h+15h] [5 Credits] | x x | |
| ❖ LBIRE2102 | Applied Geomatic | Pierre Defourny | FR [q1] [30h+22.5h] [4 Credits] | x x | |
| ❖ LGEO1343 | Earth observation by satellite | Eric Lambin | FR [q1] [30h+30h] [5 Credits] | x x | |
| ❖ LGEO2210 | Shaping sustainable urban spaces | Marie-Laurence De Keersmaecker Yves Hanin | FR [q1] [30h] [3 Credits] | x x | |
| ❖ LGEO2211 | Advanced statistical methods in geography | Christian Hafner | FR [q1] [30h+30h] [5 Credits] | x x | |
| ❖ LURBA2915 | Planification stratégique (cours - atelier) | Marie-Laurence De Keersmaecker Pierre Defourny Yves Hanin Michaël Van Cutsem | FR [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 | FR [q2] [30h] [5 Credits] | x x | |
| ❖ LSPRI2225 | Environmental Politics and Policies | David Aubin | EN [q2] [30h] [5 Credits] ⊖ | x x | |
| ❖ LURBA3011A | Acteurs, territoires et contextes de développement - partim | | FR [q1] [30h] [3 Credits] | x x | |

❖ Activités en santé publique et environnement

| | | | | |
|-------------------|------------------------------------|-------------------|-------------------------------|-----|
| ❖ LGEO2230 | Géographie médicale et de la santé | Sophie Vanwambeke | FR [q1] [30h+30h] [5 Credits] | X X |
|-------------------|------------------------------------|-------------------|-------------------------------|-----|

❖ Un cours au choix parmi les deux suivants :

| | | | | |
|--------------------|-----------------------------|------------------|-------------------------------|-----|
| ❖ LDEMO2610 | Populations and health | Bruno Masquelier | FR [q1] [30h] [5 Credits] | X X |
| ❖ WFSP2238P | Advanced epidemiology (UCL) | | EN [q2] [20h+16h] [4 Credits] | X X |

❖ Activités d'intégration professionnelle et de diversification

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.

| | | | | |
|-------------------|--------------------|---|----------------------------|-----|
| ● LBIR2004 | Masters Internship | Charles Bielders Damien Debecker (coord.) Xavier Draye Anne-Laure Jacquemart | FR [q2] [20h] [10 Credits] | X X |
|-------------------|--------------------|---|----------------------------|-----|

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.

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.

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

Subject to the general requirements laid down by the academic authorities, admission to the specialized Master's degree programme will be granted to students who fulfil the entry requirements for studies leading to the award of a Master's (second-cycle) degree and who hold a second-cycle diploma, degree, certificate or other qualification issued within or outside the French Community of Belgium, or whose prior learning or experience has been accredited by the Examination Board as being equivalent to at least 300 credits.

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

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

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

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

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

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

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.

Curriculum Management

Faculty

Structure entity

SST/AGRO

Denomination

Faculty of bioscience engineering (AGRO)

Sector

Sciences and Technology (SST)

Acronym

AGRO

Postal address

Croix du Sud 2 - bte L7.05.01

Website

1348 Louvain-la-Neuve

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

Mandate(s)

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

- 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 (<https://uclouvain.be/repertoires/patrick.gerin>)

Jury

- Président de jury: Charles Bielders (<https://uclouvain.be/repertoires/charles.bielders>)

Useful Contact(s)

- Conseiller aux études: Patrick Gerin (<https://uclouvain.be/repertoires/patrick.gerin>)

