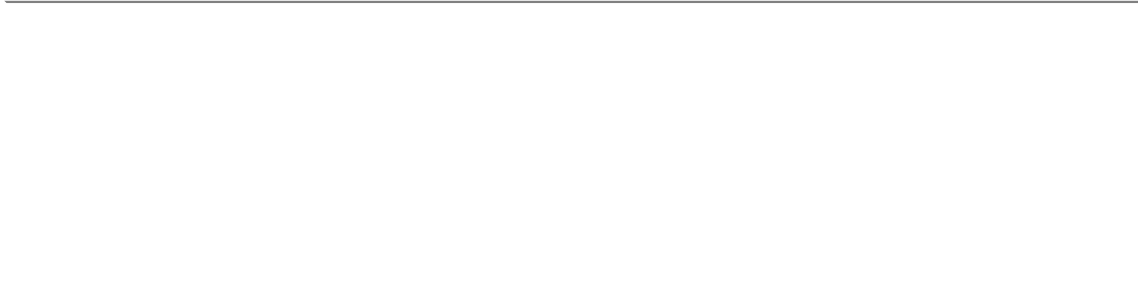




ENVI2MC
2024 - 2025

Interdisciplinary Advanced Master in Science and Management
of the Environment and Sustainable Development



ENVI2MC - Introduction

Introduction

Introduction

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.

| | | | | Year | |
|------------|---|------------------|--|------|---|
| | | | | 1 | 2 |
| ⌘ LMAT1271 | Calculation of probability and statistical analysis | Rainer von Sachs | ⌘ [q2] [30h+30h] [6 Credits]  > English-friendly | x | x |

⌘ Anglais

2 crédits minimum parmi les unités d'enseignement suivantes. Les étudiants-es qui n'ont pas de dispense de cours d'anglais DOIVENT contacter le Professeur d'anglais AU DEBUT DU 1E QUADRIMESTRE pour déterminer le cours le plus adapté à leur situation. A priori, le choix 00 -1 0 44.9000015 fera dans l'ordre la T Jted stpossitu adi-ds Ao40 soitseieJ 1 0 0 situaner ls adapt LANGL1000..007 23.200001 m 69.94cm

| | | | | Year | |
|-------------|---|---|----------------------------------|------|---|
| | | | | 1 | 2 |
| ○ LENVI2002 | Seminars in environmental science and management | Philippe Baret Hubert Bedoret (compensates Philippe Baret) Anne-Laure Jacquemart (coord.) Jean-Pierre Raskin Valérie Swaen | FR [q1] [15h] [2 Credits] | x | |
| ○ LENVI2101 | Societies, populations, environment, development: issues and interdisciplinary approaches | Martin Colla (compensates Caroline Nieberding) Nathalie Frogneux (coord.) Julie Hermesse Jean-Pierre Raskin | FR [q1] [45h] [6 Credits] | x | |
| ○ LENVI2099 | Projet personnel de fin d'études | | FR [q1+q2] [] [15 Credits] | | x |
| ○ LENVI2199 | Work placement | Dimitri Lederer | FR [q1 or q2] [15h] [30 Credits] | | x |

⊗ **Unités d'enseignement au choix :**

Les crédits des unités d'enseignement au choix viendront compléter le total des crédits des unités d'enseignement obligatoires pour atteindre au moins 120 crédits. Les étudiant-es peuvent choisir librement les unités d'enseignement 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 | Challenges of sustainable development and transition | Valentin Couvreur Nathalie Delzenne Valérie Swaen (coord.) | FR [q2] [30h] [5 Credits] | x | x |
| ⊗ LBRAI2210 | Microeconomics of Development | Frédéric Gaspart | FR [q1] [30h] [3 Credits] > French-friendly | x | x |
| ⊗ LBRAT2103 | Sociology of the actors and the rural territories | | | | |



| | | | | 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 (coord.) Charles Bielders (coord.) Hugues Goosse | EN [q1] [45h+22.5h] [6 Credits] > French-friendly | x | x |
|------------|---|---|--|---|---|

⌘ **Un cours au choix parmi les deux suivants :**

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

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✂ Un cours au choix parmi les deux suivants :

| | |
|----------------|------------------------|
| ✂ LDEMO2610 | Populations and health |
|----------------|------------------------|

The programme's courses and learning outcomes

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

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A mastery of the French language of level B1 ([Common European Framework of reference for languages](#)).

1. Students holding a master's degree obtained in a country belonging to the European Union

a/ The following three criteria must be met simultaneously:

- the average grade for master's classes must be at least 70% (14/20);
- the grade for the final project (thesis/dissertation/internship) must be at least 70% (14/20);
- the final project (thesis/thesis/internship) of at least 15 credits must be the subject of a report and defence (viva) before a jury.

b/ These criteria may be waived on the basis of duly attested significant professional or personal experience.

2. Students holding a master's degree obtained in a country outside the European Union

a/ The following three criteria must be met simultaneously :

- the average grade for master's classes must be at least 75% (15/20);
- the grade for the final project (thesis/dissertation/internship) must be at least 75% (15/20);
- the final project (thesis/thesis/internship) of at least 15 credits must be the subject of a report and defence (viva) before a jury.

b/ These criteria may be waived on the basis of duly attested significant professional or personal experience.

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](#). 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

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](tel:+32210473719) - Fax: [+32 \(0\) 10 47 47 45](tel:+32210474745)

<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

- Président de jury: [Quentin Ponette](#)

Useful Contact(s)

- Conseiller aux études: [Patrick Gerin](#)

