



The version you're consulting is not definitive. This programme still may change. The final version will be published on 1th June.

Autre site - 60 credits - 1 year - Day schedule - In French

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

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

Activities on other sites : **NO**

Main study domain : **Sciences**

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

Programme acronym: **NEEA2MC** - Francophone Certification Framework: 7

Table of contents

| | |
|---|---|
| Introduction | 2 |
| Teaching profile | 3 |
| Learning outcomes | 3 |
| Programme | 3 |
| Detailed programme by subject | 3 |
| The programme's courses and learning outcomes | 5 |
| Information | 6 |
| Access Requirements | 6 |
| Evaluation | 7 |
| Contacts | 7 |

NEEA2MC - Introduction

Introduction

NEEA2MC - Teaching profile

Learning outcomes

NEEA2MC Programme

Detailed programme by subject

CORE COURSES

- 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...)

o Module 1 : Introduction et concepts de base (4 credits)

Séminaire d'ouverture obligatoire au début du Q1 (0 crédits) et deux unités d'enseignement obligatoires pour 4 crédits.

| | | | |
|-------------|---|--|-------------------------------------|
| ○ LBIR2050A | Challenges of sustainable development and transition | | FR [q1 or q2] [22.5h] [3 Credits] 🌐 |
| ○ LNEEA2050 | Challenges of sustainable development and transition - application to the WEF Nexus | | FR [q1] [0h+12h] [1 Credits] 🌐 |

o Module 2 : les 3 composantes du Nexus EEA (20 credits)

3 unités d'enseignement obligatoires pour 12 crédits à compléter de 8 crédits minimums parmi les unités d'enseignement suivantes :

o Composante sécurité hydrique

| | | | |
|--------------|---|--|-------------------------------------|
| ○ LULG3360 | Gestion intégrée et participative des ressources en eau | | FR [q1] [] [4 Credits] 🌐 |
| ⊗ LBRES2104C | IRRIGATION AND DRAINAGE | | FR [q2] [22.5h+12.5h] [3 Credits] 🌐 |
| ⊗ LULG3330 | Sewage treatment and drinking water production | | FR [q1] [] [4 Credits] 🌐 |

o Composante sécurité énergétique

| | | | |
|------------|---|--|--------------------------|
| ○ LULG3361 | Gestion intégrée de l'énergie | | FR [q1] [] [4 Credits] 🌐 |
| ⊗ LULG3362 | Réseaux d'énergie | | FR [q1] [] [4 Credits] 🌐 |
| ⊗ LULG3363 | Valorisation des énergies renouvelables | | FR [q1] [] [4 Credits] 🌐 |

o Composante sécurité alimentaire

| | | | |
|-------------|---|---------------------------|--------------------------------------|
| ○ LULG3364 | Systèmes de production agricole et sécurité alimentaire | | FR [q1] [] [4 Credits] 🌐 |
| ⊗ LBRES2203 | Soil management in tropical and subtropical regions | Charles Biolders (coord.) | FR [q2] [22.5h+7.5h] [3 Credits] △ 🌐 |
| ⊗ LULG3365 | Politique et stratégie agroalimentaire | | FR [q1] [] [3 Credits] 🌐 |

o Module 3 : Interconnexions des 3 composantes du Nexus EEA et études de cas (16 credits)

3 unités d'enseignement obligatoires pour 11 crédits à compléter de 5 crédits minimums parmi les unités d'enseignement suivantes :

| | | | |
|-------------|---|--|-------------------------------------|
| ○ LDVLP2675 | Dynamics of development - environment inter-actions | An Ansoms | FR [q2] [30h] [3 Credits] 🌐 |
| ○ LNEEA2220 | Water-food Nexus : modeling and analysis | | FR [q2] [22.5h+22.5h] [4 Credits] 🌐 |
| ○ LULG3366 | Séminaires Nexus Eau-Energie-Alimentation : études de cas d'interconnexions | | FR [q1+q2] [] [4 Credits] 🌐 |
| ⊗ LBIRE2131 | Environmental Impact Assessment : diagnosis and indicators | Charles Bielders (coord.) Pierre Defourny | FR [q2] [22.5h] [3 Credits] 🌐 |
| ⊗ LULG3341 | Land use planning and nutritional and energy security | | FR [q2] [24h] [3 Credits] 🌐 |
| ⊗ LULG3368 | Les déchets : des ressources en eau, énergie et alimentation | | FR [q2] [] [3 Credits] 🌐 |
| ⊗ LULG3369 | Economie, énergie et environnement | | FR [q1] [] [2 Credits] 🌐 |

○ Module 4 : Outils techniques (5 credits)

1 unité d'enseignement obligatoire pour 3 crédits à compléter de 2 crédits minimums parmi les unités d'enseignement suivantes :

| | | | |
|--------------|---|--|---------------------------------|
| ○ LULG3320 | Application of teledetection and geographical information systems for environmental management | | FR [q1] [] [3 Credits] 🌐 |
| ⊗ LBIRE2130A | Environmental Impact Assessment : project and introduction to database management - Database management and application | | FR [q2] [12h+12h] [2 Credits] 🌐 |
| ⊗ LULG3367 | Gestion de projet de développement et communication | | FR [q1] [] [2 Credits] 🌐 |
| ⊗ LULG3370 | Leadership best practices | | FR [q2] [] [2 Credits] 🌐 |

○ Module 5 : Travail personnel sous forme de stage (15 credits)

| | | | |
|-------------|------------|--|---------------------------|
| ○ LNEEA2000 | Internship | | FR [q2] [] [15 Credits] 🌐 |
|-------------|------------|--|---------------------------|

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.

NEEA2MC - 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](#)

General access requirements

Translated from https://www.gallilex.cfwb.be/fr/leg_res_01.php?ncda=39681&referant=I02

Art. 112. of the "Décret définissant le paysage de l'enseignement supérieur et l'organisation académique des études" :

§ 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.

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".

Contacts

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

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<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: [Charles Bielders](#)

Jury

- Jury President: [Charles Bielders](#)

