



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 : **YES**  
 Main study domain : **Sciences**  
 Organized by: **Faculty of bioscience engineering (AGRO)**  
 Programme acronym: **NEEA2MC** - Francophone Certification Framework: 7

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## NEEA2MC - Introduction

### Introduction

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## NEEA2MC - Teaching profile

## Learning outcomes

## NEEA2MC Programme

## Detailed programme by subject

## CORE COURSES

- Mandatory
- ⊗ Optional
- △ Not offered in 2025-2026
- ⊙ Not offered in 2025-2026 but offered the following year
- ⊕ Offered in 2025-2026 but not the following year
- △ ⊕ Not offered in 2025-2026 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 ECTS) et un cours obligatoire de 4 ECTS

○ LBIR2050A	Challenges of sustainable development and transition		FR [q1 or q2] [15h+7.5h] [3 Credits] 🌐
○ LNEEA2050	Challenges of sustainable development and transition - application to the WEF Nexus	Charles Bielders	FR [q1] [0h+12h] [1 Credits] 🌐

### o Module 2 : les 3 composantes du Nexus EEA (19 credits)

3 unités d'enseignement obligatoires pour 12 crédits et deux cours au choix pour un minimum de 7 crédits.

#### o Composante sécurité hydrique

○ ENEEA3360	Gestion intégrée et participative des ressources en eau		FR [q1] [] [4 Credits] 🌐
⊗ LBRES2104C	IRRIGATION AND DRAINAGE		FR [q2] [22.5h+12.5h] [3 Credits] 🌐
⊗ ENEEA3330	Epuration des eaux, production d'eau potable et récupération des eaux usées en irrigation		FR [q1] [] [4 Credits] 🌐

#### o Composante sécurité énergétique

○ ENEEA3361	Gestion intégrée de l'énergie, en particulier dans le secteur du bâtiment		FR [q1] [] [4 Credits] 🌐
⊗ ENEEA3371	Communautés d'énergie		FR [q1] [] [4 Credits] 🌐
⊗ ENEEA3363	Valorisation des énergies renouvelables		FR [q1] [] [4 Credits] 🌐

#### o Composante sécurité alimentaire

○ ENEEA3364	Systèmes de production agricole et sécurité alimentaire		FR [q1] [] [4 Credits] 🌐
⊗ LBRES2203	Soil management in tropical and subtropical regions		FR [q2] [22.5h+7.5h] [3 Credits] 🌐
⊗ ENEEA3372	Food policies and strategies		EN [q1] [] [3 Credits] 🌐

**o Module 3 : Interconnexions des 3 composantes du Nexus EEA et études de cas (17 credits)**

Trois unités d'enseignement obligatoires pour 11 crédits et 2 unités d'enseignement au choix pour un minimum de 5 crédits.

o LDVLP2675	Dynamics of development - environment inter-actions	An Ansoms	EB [q2] [30h] [3 Credits]
o LNEEA2220	Water-food Nexus : modeling and analysis	Mathieu Javaux (coord.) Marnik Vanclooster	EB [q2] [22.5h+22.5h] [4 Credits]
o ENEEA3366	Séminaire Nexus Eau-Energie-Alimentation : études de cas d'interconnexions		EB [q1+q2] [] [4 Credits]
⊗ LBIRE2131	Environmental Impact Assessment : diagnosis and indicators	Charles Bielders (coord.) Pierre Defourny	EB [q2] [22.5h] [3 Credits]
⊗ ENEEA3341	Aménagement du territoire et sécurité nutritionnelle et énergétique		EB [q2] [] [3 Credits]
⊗ ENEEA3368	Les déchets : des ressources en eau, énergie et alimentation		EB [q2] [] [3 Credits]
⊗ ENEEA3369	Economie, énergie et environnement		EB [q1] [] [2 Credits]

**o Module 4 : Outils techniques (5 credits)**

Une unité d'enseignement obligatoire de 3 crédits et une unité d'enseignement au choix de 2 crédits

o ENEEA3320	Application de la télédétection et des systèmes d'information géographique à la gestion de l'environnement		EB [q1] [] [3 Credits]
⊗ LBIRE2130A	Environmental Impact Assessment : project and introduction to database management - Database management and application		EB [q2] [12h+12h] [2 Credits]
⊗ ENEEA3367	Gestion de projet de développement et communication, Partim 1 : Gestion de projet de développement		EB [q1] [] [2 Credits]
⊗ ENEEA3370	Leadership best practices		EB [q2] [] [2 Credits]

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

o ENEEA2000	Travail personnel sous forme de stage (1,5 mois)		EB [q2] [] [15 Credits]
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## 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.

## 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](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 deemed equivalent to the one mentioned in paragraph 1, in accordance with 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

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**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

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### Curriculum Management

Faculty

Structure entity

Denomination

Sector

Acronym

Postal address

SST/AGRO

Faculty of bioscience engineering ([AGRO](#))

Sciences and Technology ([SST](#))

AGRO

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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](#)

