

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 2023-2024
- ⊖ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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	Valentin Couvreur Nathalie Delzenne Valérie Swaen	(FR) [q1 or q2] [22.5h] [3 Credits] 🌐
○ LNEEA2050	Challenges of sustainable development and transition - application to the WEF Nexus	Charles Bielders (coord.)	(FR) [q1] [0h+12h] [1 Credits] 🌐

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

3 cours obligatoires pour un total de 12 ECTS et 2 ou 3 cours à option parmi 6 pour un total de minimum 8 ECTS

o Composante sécurité hydrique

○ LULG3360	Gestion intégrée et participative des ressources en eau		(FR) [q1] [] [4 Credits] 🌐
⊗ LBRES2104	IRRIGATION AND DRAINAGE	Mathieu Javaux	(FR) [q2] [22.5h+22.5h] [4 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 Bielders (coord.) Bruno Delvaux	(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 cours obligatoires pour un total de 11 ECTS et 2 cours à option parmi 4 pour un minimum de 5 ECTS

o LDVLP2675	Dynamics of development - environment inter-actions	An Ansoms	FR [q2] [30h] [3 Credits] 🌐
o LNEEA2220	Water-food Nexus : modeling and analysis	Alice Alonso (compensates Marnik Vanclooster) Mathieu Javaux (coord.)	FR [q2] [22.5h+22.5h] [4 Credits] 🌐
o 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] 🌐

o Module 4 : Outils techniques (5 credits)

1 cours obligatoire de 3 ECTS et minimum 1 cours à option de 2 ECTS parmi 3 cours

o 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	Yannick Agnan Charles Bielders Patrick Bogaert Pierre Defourny Guillaume Lobet Quentin Ponette	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] 🌐

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

o LNEEA2000	Internship		FR [q2] [] [15 Credits] 🌐
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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=l02

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 (<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".

Contacts

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

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

- Charles Bielders

