

BIRE2M - Introduction

Introduction



				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

○ 3 crédits minimum à choisir parmi les unités d'enseignement suivantes : (3 credits)

⌘ LBIRA2109	Agrarian systems and farm	Guillaume Lobet	EN [q1] [30h+0h] [3 Credits]  > English-friendly		X
⌘ LENVI2007A	Renewable energy sources	Emmanuel De Jaeger Patrick Gerin Hervé Jeanmart	EN [q1] [30h] [3 Credits]  > French-friendly		X

⌘ Alternative program of the stage for option 5E (10 credits)

○ 10 crédits minimum à choisir parmi les unités d'enseignement suivantes : (10 credits)

⌘ LBIRA2113	Systèmes alimentaires du Futur	Marleen Abdel Massih Philippe Baret (coord.)	EN [q2] [42.5h] [5 Credits] 		X
⌘ LBRES2101B	Smart technologies for environmental engineering	Sébastien Lambot	EN [q1] [22.5h+15h] [3 Credits]  > French-friendly		

Year



LECSO2330

Economie sociale et transition écologique et sociale

Anaïs Perilleux

PR [q2] [30h] [3 Credits]



1 2

x

PROFESSIONAL FOCUS [30.0]

- 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, ...)
-

OPTIONS

				Year	
				1	2
○ LB RTE2201	Human and environmental toxicology	Cathy Debier	EN [q1] [30h+7.5h] [4 Credits]  > French-friendly		x
○ LB RTI2101B	Data Science in bioscience engineering	Patrick Bogaert Emmanuel Hanert	EN [q1] [30h] [2 Credits]  > English-friendly	x	

COMPLEMENT TO THE OPTION 4E : POLLUTION MANAGEMENT [20.0]

- Mandatory
 - ✘
-

OPTION'S COMPLEMENT 5E - LAND USE PLANNING [20.0]

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
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- △ ⊕ 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 \(objectives, methods, evaluation...\)](#)

Year

1 2

o Content:

● LBIRF2106

OPTION 7E- WATER AND SOIL RESOURCES [23.0]

- 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...)

Year



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o Content:

Course ID	Course Title	Instructor	Language / Credits / Hours	Year 1	Year 2
● LBRES2101B	Smart technologies for environmental engineering	Sébastien Lambot	EN [q1] [22.5h+15h] [3 Credits] 🌐 > French-friendly	X	
● LBRES2103	Soil physics applied to Agronomy and Environment	Charles Bielders (coord.) Mathieu Javaux Mathieu Javaux (compensates) Charles Bielders	FR [q1] [30h+15h] [4 Credits] 🌐	X	
● LBRES2104	IRRIGATION AND DRAINAGE	Mathieu Javaux	FR [q2] [22.5h+22.5h] [4 Credits] 🌐	X	
● LBRES2105	Soil erosion and conservation	Charles Bielders	EN [q2] [22.5h+22.5h] [4 Credits] △ 🌐 > French-friendly	X	
● LBRES2204	Integrated water management of water resources	Marnik Vanclooster (coord.)	FR [q1] [22.5h+22.5h] [4 Credits] 🌐		X
● LBRTE2101	Applied hydro-biogeochemistry	Pierre Delmelle Patrick Gerin (coord.)	FR [q1] [30h+15h] [4 Credits] 🌐 > French-friendly	X	

OPTION'S COMPLEMENT 7E - WATER AND SOIL RESOURCES [20.0]

- 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
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				Year	
				1	2
○ LBIRE2233	Integrated project in water and soil resources management	Charles Bielders (coord.) Mathieu Javaux (coord.) Marnik Vanclooster	FR [q1] [40h+8h] [6 Credits] 		x
○ LBRES2206	Advanced Hydrology for Engineers	Mathieu Javaux	EN [q1] [22.5h+15h] [3 Credits]  > <i>French-friendly</i>		x

OPTION 10E - DATA SCIENCE [23.0]

- Mandatory
- ✂ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
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- △ ⊕ 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 \(objectives, methods, evaluation...\)](#)

Year

OPTION'S COMPLEMENT - DATA SCIENCE [20.0]

- 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
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 - [FR] Teaching language (FR, EN, ES, NL, DE, ...)
-

o Unité d'enseignement obligatoire pour l'étudiant-e qui ne l'aurait pas créditée en Bachelier (2 credits)

<p>LBIR1325B</p>	<p>Transfer of fluids and energy for Bio-engineer</p>	<p>Yann Bartosiewicz Quentin Goor (compensates Mathieu Javaux) Marnik Vanclooster</p>	<p>FR [q2] [0h+30h] [2 Credits] </p>	<p>X</p>
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Year

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x

x

Supplementary classes

To access this Master, students must have a good command of certain subjects. If this is not the case, in the first annual block of their Masters programme, students must take supplementary classes chosen by the faculty to satisfy course prerequisites.

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o Unités d'enseignement passerelle pour le master Bioingénieur en sciences et technologies de l'environnement ET Bioingénieur en gestion des forêts et des espaces naturels (44 crédits)

○ LANGL2480	English Communication Skills for Bioengineers	Ahmed Adriouèche Ariane Halleux Lucille Meyers Philippe Neyt Charlotte Peters (coord.) Adrien Pham Anne-Julie Toubeau (coord.)	EN [q2] [30h] [2 Credits] 🌐 > French-friendly
○ LBIR1315	Probability and statistics II	Patrick Bogaert	FR [q1] [22.5h+22.5h] [3 Credits] 🌐
○ LBIR1325A	Transfer of fluids and energy for Bio-engineer	Yann Bartosiewicz Quentin Goor (compensates Mathieu Javaux) Marnik Vanclooster	FR [q1] [37.5h+22.5h] [5 Credits] 🌐
○ LBIR1325B	Transfer of fluids and energy for Bio-engineer	Yann Bartosiewicz Quentin Goor (compensates Mathieu Javaux) Marnik Vanclooster	FR [q2] [0h+30h] [2 Credits] 🌐
○ LBIR1328	Climatology and hydrology applied to agronomy and the environment	Alice Alonso (coord.) Charles Bielders (coord.) Hugues Goosse	FR [q1] [45h+22.5h] [6 Credits] 🌐 > French-friendly
○ LBIR1334	Introduction to forest science	Quentin Ponette (coord.) Caroline Vincke	FR [q2] [22.5h+15h] [3 Credits] 🌐 > English-friendly
○ LBIR1336	Soil science and integrated excursions	Yannick Agnan (coord.) Richard Lambert Caroline Vincke	FR [q2] [30h+37.5h] [5 Credits] 🌐 > English-friendly
○ LBIR1349	Analytical Chemistry I	Christine Dupont (coord.) Yann Garcia Yann Garcia (compensates Christine Dupont)	FR [q1] [30h+15h] [3 Credits] 🌐

○ LBIR1350	General Microbiology	Annika Gillis	30 [q2] [37.5h+15h] [4 Credits]
○ LBIR1351	Introduction to systems analysis	Philippe Baret	30 [q1] [10h+20h] [3 Credits]
○ LBIR1354	Biologie des interactions	Anne-Laure Jacquemart (coord.) Anne Legrève	30 [q2] [22.5h+15h] [3 Credits]
○ LBIR1360	Firm management and organisation	○ LBIR1351	

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Course prerequisites

There are no prerequisites between course units (CUs) for this programme, i.e. the programme activity (course unit, CU) whose learning outcomes are to be certified and the corresponding credits awarded by the jury before registration in another CU.

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.

BIRE2M - Information

Access Requirements

Master course admission requirements are defined by the French Community of Belgium Decree of 7 November 2013 defining the higher education landscape and the academic organisation of courses.

General and specific admission requirements for this programme must be satisfied at the time of enrolling at the university.

Unless explicitly mentioned, the bachelor's, master's and licentiate degrees listed in this table or 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](#)
- > [Specific access requirements](#)
- > [University Bachelors](#)
- > [Non university Bachelors](#)
- > [Holders of a 2nd cycle University degree](#)
- > [Access based on validation of professional experience](#)
- > [Access based on application](#)
- > [Admission and Enrolment Procedures for general registration](#)

University Bachelors

Diploma	Special Requirements	Access	Remarks
UCLouvain Bachelors			
Bachelor in Bioengineering	Additional module in Environment	Direct access	
Autre Bachelier UCL du domaine des sciences et technologies		Access based on application	Le/la futur-e étudiant-e rencontrera obligatoirement le Conseiller aux études pour déterminer le programme à suivre.
Others Bachelors of the French speaking Community of Belgium			
Bachelier en sciences de l'ingénieur, orientation bioingénieur		Direct access	Enseignements supplémentaires à déterminer selon le programme suivi antérieurement (max. 15 crédits). Prendre obligatoirement contact avec le Conseiller aux études .
		Access based on application	
Bachelors of the Dutch speaking Community of Belgium			
Bachelor of Science in de bio-ingenieurswetenschappen		Direct access	Enseignements supplémentaires à déterminer selon le programme suivi antérieurement (max. 15 crédits). Prendre obligatoirement contact avec le Conseiller aux études .
		Access based on application	
Foreign Bachelors			
Bachelier en sciences de l'ingénieur, orientation bioingénieur		Access based on application	Sous réserve d'acceptation du dossier. Enseignements supplémentaires à déterminer selon le programme suivi antérieurement

