

At Louvain-la-Neuve - 180 credits - 3 years - Day schedule - In French

Dissertation/Graduation Project : **NO** - Internship : **NO**

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

Activities on other sites : **NO**

Main study domain : **Sciences**

Organized by: **Faculty of Science (SC)**

Programme acronym:

CHIM1BA - Introduction

Introduction

- 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

1 2 3

○ Majeure (150 credits)

○ Biochimie (9 credits)

○ LCHM1271	Elements of biochemistry	Patrice Soumillion	(FR) [q1] [30h+24h] [4 Credits] 🌐		
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o Chimie des matériaux (5 credits)

○ LCHM1319	Material's chemistry	Charles-André Fustin Alexandru Vlad	FR [q2] [45h] [5 Credits]			X
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o Mathématiques (8 credits)

○ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	FR [q1] [30h+20h] [4 Credits]		X	
○ LMAT1102	Mathematics 2	Augusto Ponce	FR [q2] [30h+30h] [4 Credits]		X	

o Biologie (14 credits)

○ LBIO1110	Life : diversity and evolution	Patrick Dumont Alice Mouton	FR [q1] [30h+10h] [4 Credits]		X	
○ LBIO1111	Cell and molecular biology	Patrick Dumont Charles Hachez	FR [q1] [30h+20h] [5 Credits]		X	
○ LBIO1112	Organism biology : plants and animals	Muriel Quinet Jean-François Rees	FR [q2] [30h+20h] [5 Credits]		X	

o Physique (13 credits)

○ LPHY1101	Physics 1	Michel Crucifix Thierry Fichet	FR [q1] [30h+40h] [6 Credits]		X	
○ LPHY1102	Physics 2	Vincent Lemaitre	FR [q2] [54h+36h] [7 Credits]		X	

o Sciences de la terre (5 credits)

○ LBIR1130	Introduction to Earth sciences	Pierre Delmelle (coord.) Sophie Opfergelt	FR [q2] [30h+30h] [5 Credits]		X	
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o Anglais (8 credits)

○ LANG1861	English: reading and listening comprehension of scientific texts	Catherine Avery (coord.) Fanny Desterbecq Amandine Dumont (coord.) Hila Peer Marc Piwnik	EN [q2] [10h] [2 Credits]		X	
○ LANG1862	English: reading and listening comprehension of scientific texts					

Year

1 2 3

O Sciences religieuses (2 credits)*L'étudiant-e choisit 2 crédits parmi les cours suivants*

⌘ LTECO2100	Sociétés, cultures, religions : Biblical readings	Hans Ausloos	
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List of available minors

The students can choose a minor from the list below or can opt for another minor on the University programme, based on a project to be elaborated together with the study advisor.

- > [Minor in Biology](#) [en-prog-2024-minbiol]
- > [Additional module in Chemistry](#) [en-prog-2024-appchim]
- > [Minor in Criminology](#) [en-prog-2024-mincrim]
- > [Minor in Culture and Creation](#) [en-prog-2024-mincucrea]
- > [Minor in Scientific Culture](#) [en-prog-2024-minculsts]
- > [Minor in Development and Environment](#) [en-prog-2024-mindenv]
- > [Minor : Issues of Transition and Sustainable Development \(*\)](#) [en-prog-2024-mindd]
- > [Minor in Gender Studies](#) [en-prog-2024-mingenre]
- > [Minor in entrepreneurship \(*\)](#) [en-prog-2024-minmpme]
- > [Minor in Economics \(open\)](#) [en-prog-2024-minoeco]
- > [Minor in numerical technologies and society](#) [en-prog-2024-minstic]
- > [Minor in Geography](#) [en-prog-2024-mingeog]
- > [Minor in Statistics, Actuarial Sciences and Data Sciences](#) [en-prog-2024-minstat]
- > [Mineure Polytechnique](#) [en-prog-2024-minpoly]

(*) *This programme is the subject of access criteria*

Course prerequisites

The **table** below lists the activities (course units, or CUs) for which there are one or more prerequisites within the programme, i.e. the programme CU for which the learning outcomes must be certified and the corresponding credits awarded by the jury before registering for that CU.

These activities are also identified in the **detailed programme**: their title is followed by a yellow square.

Prerequisites and student's annual programme

As the prerequisite is for CU registration purposes only, there are no prerequisites within a programme year. Prerequisites are defined between CUs of different years and therefore influence the order in which the student will be able to register for the programme's CUs.

In addition, when the jury validates a student's individual programme at the beginning of the year, it ensures its coherence, meaning that it may:

- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.
- transform a prerequisite into a corequisite if the student is in the final year of a degree course.

For more information, please consult the [Academic Regulations and Procedures](#).

Prerequisites list

LANG1862 "English: reading and listening comprehension of scientific texts" has prerequisite(s) LANG1861

- LANG1861 - [English: reading and listening comprehension of scientific texts](#)

LCHM1331 "Chimie inorganique" has prerequisite(s) LCHM1211

- LCHM1211 - [General Chemistry 2](#)

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.

Detailed programme per annual block

CHIM1BA - 1ST ANNUAL UNIT

- Mandatory
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o Majeure

o Chimie générale

● LCHM1111 [General chemistry](#)

● LCHM1111	General chemistry	
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o Mathématiques

○ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	PS [q1] [30h +20h] [4 Credits] 
○ LMAT1102	Mathematics 2	Augusto Ponce	PS [q2] [30h +30h] [4 Credits] 

o Biologie

○ LBIO1110	Life : diversity and evolution	Patrick Dumont Alice Mouton	PS [q1] [30h +10h] [4 Credits] 
○ LBIO1111	Cell and molecular biology	Patrick Dumont Charles Hachez	PS [q1] [30h +20h] [5 Credits] 
○ LBIO1112	Organism biology : plants and animals		

CHIM1BA - 3RD ANNUAL UNIT

[22.5h] [3

Credits]

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

Click on the course title to see detailed informations (objectives, methods, evaluation...)

o Majeure**o Biochimie**

LCHM1371	Metabolic biochemistry	Melissa Page	[q2] [30h +30h] [5 Credits] > <i>French-friendly</i>
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o Chimie inorganique et analytique

LCHM1331	Inorganic chemistry I	Sophie Hermans	[q1] [37.5h +7.5h] [4 Credits]
LCHM1321	Analytical chemistry 1	Christine Dupont Yann Garcia	[q1] [40h] [5 Credits]
LCHM1322	Exercices in analytical chemistry	Yann Garcia	[q1] [0h +66h] [3 Credits]

o Chimie organique

LCHM1341	Organic chemistry III	Raphaël Robiette	[q2] [30h +15h] [4 Credits]
LCHM1342	Exercices in organic chemistry I	Raphaël Robiette Michael Singleton	[q2] [0h +65h] [3 Credits]

o Chimie physique

LCHM1351	Physical chemistry	Tom Leysens	[q1] [45h +19h] [5 Credits]
LCHM1353	Quantum Chemistry	Benoît Champagne	[q1] [22.5h +7.5h] [3 Credits]

o Chimie des polymères

LCHM1361	Introduction to polymer chemistry	Jean-François Gohy	[q2] [22.5h] [3 Credits]
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o Chimie des matériaux

LCHM1319	Material's chemistry		
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CHIM1BA - Information

- For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your diploma or, at the very least, proof of the filing of the equivalence request with the Wallonia-Brussels Federation (French Community of Belgium). For any information relating to obtaining an equivalence, please refer to [the following site](#).
- For any secondary school diploma **from a country outside the European Union**, the admission application must contain the [equivalence of your diploma](#) issued by the Wallonia-Brussels Federation (French Community of Belgium). If you have a restrictive equivalence for the programme of your choice, in addition of it, you **must** have either the [DAES](#) or a certificate of successful completion of the [examination giving access to 1st cycle studies](#) when you submit your application

Access based on validation of professional experience

Admission to undergraduate studies on the basis of accreditation of knowledge and skills obtained through professional or personal experience (Accreditation of Prior Experience)

Subject to the general requirements laid down by the authorities of the higher education institution, with the aim of admission to the undergraduate programme, the examination boards accredit the knowledge and skills that students have obtained through their professional or personal experience.

This experience must correspond to at least five years of documented activity, with years spent in higher education being partially taken into account: 60 credits are deemed equivalent to one year of experience, with a maximum of two years being counted. At the end of an assessment procedure organized by the authorities of the higher education institution, the Examination Board will decide whether a student has sufficient skills and knowledge to successfully pursue undergraduate studies.

After this assessment, the Examination Board will determine the additional courses and possible exemptions constituting the supplementary requirements for the student's admission.

Special requirements to access some programmes

- Admission to **undergraduate studies in engineering: civil engineering and architect**

Pass certificate for the [special entrance examination for undergraduate studies in engineering: civil engineering and architect](#).

Admission to these courses is always subject to students passing the special entrance examination. Contact the faculty office for the programme content and the examination arrangements.

- Admission to **undergraduate studies in veterinary medicine**

[Admission to undergraduate studies in veterinary medicine is governed by the Decree of 16 June 2011 and possible exemptions constituting](#)

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<https://uclouvain.be/fr/facultes/sc/chim>

Website

Academic supervisor: [Olivier Riant](#)

Jury

- President and Study advisor: [Benjamin Elias](#)
- Secretary: [Marc de Wergifosse](#)

Useful Contact(s)

- Administrative manager for the student's annual program: [Nathalie Micha](#)

