UCLouvain

CHIM2M

2026 - 2027

Master [120] in Chemistry

At Louvain-la-Neuve - 120 credits - 2 years - Day schedule - In English
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 Science (SC)**
Programme acronym: **CHIM2M** - Francophone Certification Framework: 7

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CHIM2M - Introduction

Introduction

Introduction

This master's degree trains top-level scientists able to solve contemporary problems linked to chemistry; it provides a solid theoretical formation and develops experimental ability, synthetic and critical way of thinking, as well as the rigour of scientific reasoning and expression.

The completion of a final year dissertation (master thesis) in one of the laboratories of the Institute of Condensed Matter and Nanosciences or the Institute of Biomolecular Science and Technology furthermore constitutes an initiation to research, opening the door to a potential doctorate.

Your profile

You

- want to help solve the great challenges of our time by creating new molecules with novel properties
- would like to work in university or public research institutes, in industrial laboratories,
- wish to develop experimental tools and sharp knowledge in advanced chemistry

Your future job

Chemistry is constantly developing and offers many job prospects. Industry is one of the largest employers: petrochemicals, pharmaceuticals, biotechnology, plastics and polymers, paint manufacturing, cosmetics, dyes, waste recycling, etc.

The chemist also puts his·her skills at the service of research (research institutes or industrial laboratories). Chemistry also opens up career opportunities in education, computer science, banking and insurance and other sometimes unsuspected professions. The environment is now an increasingly demanding sector.

Your programme

This master offers you

- a solid theoretical training in the fundamental orientations of chemistry ;
- high experimental and advanced research skills in chemistry;
- great freedom in setting up your program;
- an opportunity to test your skills in the field, in a research lab, in industry or in a high school class;
- the possibility of completing your internship or part of your Master's degree abroad.

CHIM2M - Teaching profile

Learning outcomes

On successful completion of this programme, each student is able to :

1. Maitriser un ensemble de « savoirs scientifiques » permettant de résoudre des problématiques chimiques complexes

1.1 Identifier et utiliser les connaissances « essentielles » des sciences fondamentales : biologie, chimie, mathématique, physique pour résoudre une problématique donnée
1.2 Identifier et utiliser les savoirs « spécialisés » de la chimie : organique, inorganique, analytique, physique pour résoudre une problématique disciplinaire complexe
1.3 Identifier et utiliser les savoirs « hautement spécialisés » dans une des orientations de la chimie pour résoudre une problématique disciplinaire complexe

2. Mener à son terme une démarche scientifique complète appliquée à l'appréhension, à l'analyse ou au développement d'un procédé chimique

2.1 Définir une problématique en des termes scientifiques rigoureux
2.2 Rechercher des informations pertinentes (en français/anglais) en vue de documenter une problématique en chimie
2.3 Quantifier les propriétés d'une molécule : thérapeutique, optique, électrique, magnétique, tensio-active, colorante, …
2.4 Intégrer les connaissances acquises pour la formulation du problème en termes d'hypothèses permettant de proposer une solution au problème chimique posé
2.5 Synthétiser et exploiter des documents scientifiques et techniques spécialisés en vue de résoudre une problématique chimique.
2.6 Etablir les relations entre les concepts et les résultats (structure-propriété pour une molécule donnée)
2.7 Élaborer de manière innovante un mode opératoire permettant d'amener la réponse demandée.
2.8 Proposer les solutions les plus appropriées à une problématique chimique posée
2.9 Evaluer l'impact énergétique et environnemental d'un nouveau procédé chimique
2.10 Rédiger un projet en chimie dans sa globalité en planifiant les étapes de travail

3. Expérimenter (en laboratoire) des procédés chimiques en vue de répondre à une problématique posée

3.1 Réaliser des expériences (en laboratoire) menant à une ou des solutions au problème chimique posé : observer, analyser, interpréter, discuter, comparer, planifier
3.2 Proposer ou répéter une méthode de synthèse ou un plan d'analyse en vue d'obtenir une molécule donnée ou de déterminer sa concentration.
3.3 Optimiser les résultats d'une problématique chimique : isoler, purifier et vérifier la structure d'une molécule, mesurer ses propriétés et sa concentration
3.4 Veiller à la sécurité des produits dans le respect des règles de l'art de la chimie.

4. Communiquer oralement et par écrit en français et en anglais en vue de mener à son terme un projet scientifique en chimie

4.1 Formuler des conclusions pour la rédaction rigoureuse d'un rapport dans un esprit de synthèse.
4.2 Rédiger des documents techniques en chimie.
4.3 Communiquer sous forme synthétique, graphique et schématique les conclusions d'une étude chimique.
4.4 Savoir expliquer oralement et par écrit les résultats d'une problématique/travaux/étude (structure d'une molécule ou d'un mélange de molécules inconnues) en utilisant les techniques modernes de communication

5. Rigueur scientifique et analyse critique

5.1 Faire preuve d'une capacité d'autoévaluation en connaissant ses compétences et les limites de sa propre expertise
5.2 Faire preuve d'ouverture d'esprit, accepter des approches innovantes dans le domaine de la chimie

6. **S'il choisit la finalité approfondie** , enrichir ses connaissances, parfaire sa formation à la démarche expérimentale, aux technologies et à la communication scientifique écrite et orale dans l'optique d'une carrière dans la recherche

6.1 Témoigner d'une expérience acquise via une formation pratique sur des questions scientifiques ciblées au sein de laboratoires d'accueil dans différentes universités
6.2 Utiliser les compétences acquises au cours du Master dans un environnement nouveau et porteur au sein d'une institution de recherche nationale ou internationale

7. **S'il choisit la finalité spécialisée** , enrichir ses connaissances dans le domaine de la chimie et se confronter à la réalité de l'entreprise

7.1 Faire preuve de l'acquisition des approches méthodologiques et technologiques de pointe en relation avec les pratiques du monde de l'entreprise
7.2 Utiliser les compétences acquises au cours du Master dans un environnement nouveau et porteur au sein d'une entreprise au sens large

Programme structure

The program consists of a common core of 90 ECTS (credits), and a more focused training of 30 credits (to be chosen between “in-depth” or “specialized: industrial chemistry"). Note that the core curriculum counts 19 optional course credits.

The students in chemistry also have the possibility to register to the CPME focus: “ Interdisciplinary Program in Entrepreneurship ”.

CHIM2M Programme

Detailed programme by subject

CORE COURSES [90.0]

- Mandatory
- Optional
- Not offered in 2026-2027
- Not offered in 2026-2027 but offered the following year
- Offered in 2026-2027 but not the following year
- Not offered in 2026-2027 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...)

Cours de formation disciplinaire générale (27 credits)

				Year 1	Year 2
LCHM2120	Analytical Chemistry II and exercises	Yann Garcia	EN [q1] [30h+40h] [6 Credits] > *French-friendly*	x	
LCHM2130	Inorganic chemistry II and Exercises	Arnaud Boreux (compensates Sophie Hermans)	EN [q1] [30h+45h] [6 Credits] > *French-friendly*	x	
LCHM2140	Organic chemistry IV and exercices	Arnaud Boreux (compensates Benjamin Elias) Olivier Riant	EN [q1] [30h+40h] [6 Credits] > *French-friendly*	x	
LCHM2150	Physical chemistry and physico-chemical calculations II	Tom Leyssens	EN [q1] [45h+10h] [6 Credits] > *French-friendly*	x	
LCHM2280	Industrial chemistry	Vincent Mutterer Sophie Vanlaethem	EN [q2] [30h] [3 Credits] > *French-friendly*		x

Cours de formation disciplinaire complémentaire (12 credits)

LCHM2181	Homogeneous and heterogeneous catalysis	Eric Gaigneaux Olivier Riant	EN [q1] [22.5h+7.5h] [3 Credits] > *French-friendly*	x	x
LCHM2170	Introduction to protein biotechnology	Antoine Deschamps (compensates Pierre Morsomme) Patrice Soumillion Patrice Soumillion (compensates Pierre Morsomme)	EN [q1] [22.5h+7.5h] [3 Credits] > *French-friendly*	x	x

deux cours parmi les quatre suivants : (6 credits)

				Year 1	2
⊠ LCHM2151	Advanced mass spectrometry	Charles-André Fustin	EN [q1] [22.5h+7.5h] [3 Credits] > *French-friendly*	x	x
⊠ LCHM2152	NMR Complements	Michael Singleton	EN [q1] [22.5h+7.5h] [3 Credits] > *French-friendly*	x	x
⊠ LCHM2122	Physical Methods for the Analysis of Solids	Charles-André Fustin Yann Garcia	EN [q1] [30h] [3 Credits] > *French-friendly*	x	x
⊠ LBIR1346	Surface and colloid chemistry	Christine Dupont (coord.) Aurélien vander Straeten (compensates Christine Dupont)	FR [q2] [30h] [3 Credits]	x	x

Mémoire et séminaire (30 credits)

LCHM2999	Master's thesis		EN [q2] [] [27 Credits] > *French-friendly*		x
LCHM2290	Thesis tutorial	Ariane Halleux Olivier Riant	EN [q1] [15h] [3 Credits] > *French-friendly*		x

Compétences transversales (2 credits)

un cours de philosophie parmi

⊠ LSC2001	Introduction to contemporary philosophy	Peter Verdée	FR [q2] [30h] [2 Credits]	x	x
⊠ LSC2220	Philosophy of science	Alexandre Guay	EN [q2] [30h] [2 Credits]	x	x
⊠ LFILO2003E	Ethics in the Sciences and technics (sem)	Alexandre Guay Hervé Jeanmart René Rezsohazy	FR [q2] [15h+15h] [2 Credits]	x	x
⊠ LTHEO2840	Science and Christian faith	Paulo Jorge Dos Santos Rodrigues	FR [q1] [15h] [2 Credits]	x	x

Cours au choix (19 credits)

⊠ Cours au choix recommandés pour les finalités approfondie et spécialisée

⊠ LBBMC2101	Structural and functional biochemistry	Antoine Deschamps (compensates Pierre Morsomme) Patrice Soumillion Patrice Soumillion (compensates Pierre Morsomme)	EN [q1] [36h+6h] [4 Credits]	x	
⊠ LCHM2122	Physical Methods for the Analysis of Solids	Charles-André Fustin Yann Garcia	EN [q1] [30h] [3 Credits] > *French-friendly*		x
⊠ LCHM2143	Physical organic chemistry	Raphaël Robiette	EN [q1] [22.5h+7.5h] [3 Credits] > *French-friendly*		x
⊠ LCHM2151	Advanced mass spectrometry	Charles-André Fustin	EN [q1] [22.5h+7.5h] [3 Credits] > *French-friendly*	x	x
⊠ LCHM2152	NMR Complements	Michael Singleton	EN [q1] [22.5h+7.5h] [3 Credits] > *French-friendly*	x	x
⊠ LCHM2231	Chemistry and functionality of inorganic materials	Yann Garcia	EN [q2] [45h+15h] [6 Credits] > *French-friendly*		x
⊠ LCHM2241	Organic synthesis	Benjamin Elias Olivier Riant Michael Singleton	EN [q2] [45h+15h] [6 Credits] > *French-friendly*		x
⊠ LCHM2243	Chemistry of natural products	Michael Singleton Patrice Soumillion	EN [q1] [22.5h+7.5h] [3 Credits] > *French-friendly*		x
⊠ LCHM2244	Medicinal chemistry	Raphaël Frédérick Didier Lambert	EN [q2] [22.5h+7.5h] [3 Credits] > *French-friendly*		x
⊠ LCHM2246	Nuclear chemistry	Pascal Froment	FR [q1] [22.5h+7.5h] [3 Credits] > *English-friendly*	x	x
⊠ LCHM2247	Supramolecular chemistry	Charles-André Fustin Michael Singleton	EN [q2] [22.5h+7.5h] [3 Credits] > *French-friendly*		x
⊠ LCHM2251	Structural chemistry by diffraction methods	Yaroslav Filinchuk	EN [q1] [22.5h+7.5h] [3 Credits] > *French-friendly*		x
⊠ LCHM2252	Crystal engineering and crystallization processes	Tom Leyssens	EN [q2] [45h+15h] [6 Credits] > *French-friendly*		x

				Year 1	2
⊠ LCHM2260	Electrochemical Energy storage	Alexandru Vlad	EN [q1] [22.5h] [3 Credits] > *French-friendly*		x
⊠ LCHM2261A	Polymer Chemistry and Physical Chemistry (part 1 : Polymer Chemistry)	Charles-André Fustin Jean-François Gohy Alain Jonas	EN [q1] [22.5h+7.5h] [3 Credits] > *French-friendly*		x
⊠ LCHM2261B	Polymer Chemistry and Physical Chemistry (part 2 : Polymer Physical Chemistry)	Charles-André Fustin Jean-François Gohy Alain Jonas	EN [q1] [22.5h+7.5h] [2 Credits] > *French-friendly*		x
⊠ LCHM2281	Photochemistry	Ludovic Troian-Gautier	EN [q2] [22.5h+7.5h] [3 Credits] > *French-friendly*	x	x
⊠ LMAPR2012	Polymers for advanced technologies	Karine Glinel Karine Glinel (compensates Sophie Demoustier) Jean-François Gohy Jean-François Gohy (compensates Sophie Demoustier)	EN [q2] [45h+15h] [5 Credits] > *French-friendly*		x
⊠ LMAPR2016	Project in Polymer Science	Charles-André Fustin Alain Jonas	EN [q2] [30h+15h] [5 Credits] > *French-friendly*		x
⊠ LBIR1362	Environmental Economics	Frédéric Gaspart	FR [q2] [30h+7.5h] [3 Credits]		x
⊠ LEPL1803	Economy	Olivier Daxhelet Julien Hendrickx	FR [q2] [30h+30h] [5 Credits]	x	x
⊠ LEPL2214A	Law, Regulation and Legal Context - (partim A)	Vincent Cassiers Werner Derycke	FR [q1] [30h+0h] [3 Credits]	x	x
⊠ LDROP2101	Management of Intellectual Property Rights	François Wéry	EN [q2] [30h] [5 Credits]	x	x

⊠ Cours au choix recommandés pour la finalité didactique

⊠ LAGRE2310	Micro-teaching exercises		FR [q1 or q2] [15h] [2 Credits] △	x	x
⊠ LAGRE2221	Learning and teaching with new technologies		FR [q1] [15h+15h] [2 Credits] △	x	x
⊠ LMAT2330	Seminar on the teaching of mathematics	Enrico Vitale	EN [q1+q2] [15h+30h] [4 Credits]	x	x
⊠ LEISS2902	Introduction to educational research	Stéphane Colognesi	FR [q1] [15h] [2 Credits]	x	x

LIST OF FOCUSES

Two focused orientations are proposed that should be selected in view of your professional intentions at the end of your studies:

- « in-depth chemistry »: internship will be realized in a research laboratory ;
- « specialized: chemical industry »: internship will be realized in a company active in the chemical field.

However, this focus is not limiting for your future professional career as it only concerns 30 credits; employment opportunities and your future choices will be equally important.

> Research Focus *[en-prog-2026-chim2m-lchim200a]*
> Professional Focus : Industrial Chemistry *[en-prog-2026-chim2m-lchim200s]*

RESEARCH FOCUS [30.0]

- Mandatory
- Optional
- Not offered in 2026-2027
- Not offered in 2026-2027 but offered the following year
- Offered in 2026-2027 but not the following year
- Not offered in 2026-2027 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

Content:

LCHM2295	Research internship (14 weeks)		[EN] [q2] [] [30 Credits] > *French-friendly*	x	

PROFESSIONAL FOCUS : INDUSTRIAL CHEMISTRY [30.0]

- Mandatory
- Optional
- Not offered in 2026-2027
- Not offered in 2026-2027 but offered the following year
- Offered in 2026-2027 but not the following year
- Not offered in 2026-2027 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

Content:

LCHM2275	Internship (14 weeks)		[EN] [q2] [] [30 Credits] > *French-friendly*	x	

OPTIONS

> Optional courses [en-prog-2026-chim2m-lsc100o]
> INEO, Interdisciplinary training in entrepreneurship [en-prog-2026-chim2m-lboe955o]

OPTIONAL COURSES

O Mandatory
⊠ Optional
△ Not offered in 2026-2027
⊘ Not offered in 2026-2027 but offered the following year
⊕ Offered in 2026-2027 but not the following year
△ ⊕ Not offered in 2026-2027 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...)

These credits are not counted within the 120 required credits.

Content:

				Year 1	Year 2
⊠ LSST1001	IngénieuxSud	Stéphanie Merle Jean-Pierre Raskin	[FR] [q1+q2] [30h+22.5h] [5 Credits]	x	x
⊠ LSST1002M	Information and critical thinking - MOOC	Anne Bauwens (compensates Jean-François Rees)	[FR] [q1] [30h+15h] [3 Credits]	x	x

INEO, INTERDISCIPLINARY TRAINING IN ENTREPRENEURSHIP

O Mandatory
⊠ Optional
△ Not offered in 2026-2027
⊘ Not offered in 2026-2027 but offered the following year
⊕ Offered in 2026-2027 but not the following year
△ ⊕ Not offered in 2026-2027 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...)

This option lasts 2 years and is integrated into more than 30 Masters programs in 9 faculties/schools of the UCLouvain. The choice of this option implies the realization of an interfaculty dissertation (in team) on a business creation project. Access is limited to students selected on the basis of a portfolio. More info. via https://uclouvain.be/en/study/ineo

Admission to this CPME option is subject to selection, please submit your application in due time https://uclouvain.be/fr/etudier/ineo/admission.html

Courses in this option cannot be taken individually outside of the option.

From 20 to 25credit(s)

Content:

				Year 1	Year 2
⊠ LINEO2021	Financer son projet *Ce cours est obligatoire pour les étudiants qui n'ont pas de prérequis en gestion (les étudiants qui ont suivi la mineure en gestion, ou la mineure en esprit d'entreprendre sont dispensés de ce cours).*	Olivier Vercruysse	[FR] [q2] [30h+15h] [5 Credits]	x	
O LINEO2001	Théorie de l'entrepreneuriat	Frank Janssen	[FR] [q1] [30h+20h] [5 Credits]	x	

				Year 1	2
O LINEO2002	Aspects juridiques, économiques et managériaux de la création d'entreprise	Yves De Cordt Emilie Lubukayi Tshibuabua Ngalula	[FR] [q1] [30h+15h] [5 Credits]	x	
O LINEO2004	Séminaire d'approfondissement en entrepreneuriat	Frank Janssen	[FR] [q2] [30h+15h] [5 Credits]	x	
O LINEO2003	Plan d'affaires et étapes-clefs de la création d'entreprise	Frank Janssen	[FR] [q2] [30h+15h] [5 Credits]		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.

In some cases, a complementary program (maximum 60 ECTS) consisting of Bachelor courses in Chemistry will be required, in coordination with the Academic Advisor, and based on the student's previous background and training.

For example, students with a Bachelor degree in Chemistry from a Higher non-university education, wishing to start the Master in Chemistry, will have to take a series of courses to complement their initial formation, typically following the scheme hereunder :

O Mandatory
⊠ Optional
△ Not offered in 2026-2027
⊘ Not offered in 2026-2027 but offered the following year
⊕ Offered in 2026-2027 but not the following year
△ ⊕ Not offered in 2026-2027 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...)

⊠ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	FR [q1] [30h+20h] [4 Credits]
⊠ LMAT1102	Mathematics 2	Augusto Ponce	FR [q2] [30h+30h] [4 Credits]
⊠ LCHM1252	Quantum chemistry 1	Marc de Wergifosse	FR [q2] [45h+22.5h] [6 Credits]
⊠ LCHM1331	Inorganic chemistry I	Sophie Hermans	FR [q1] [37.5h+7.5h] [4 Credits]
⊠ LCHM1321	Analytical chemistry 1	Yann Garcia Yann Garcia (compensates Christine Dupont)	FR [q1] [40h] [5 Credits]
⊠ LCHM1351	Physical chemistry	Tom Leyssens	FR [q1] [45h+19h] [5 Credits]
⊠ LCHM1311	Environmental chemistry	Alexandru Vlad	EN [q2] [30h] [4 Credits]
⊠ LCHM1319	Material's chemistry	Charles-André Fustin Alexandru Vlad	FR [q2] [45h] [5 Credits]
⊠ LCHM1391	Project	Benjamin Elias Charles-André Fustin Raphaël Robiette Ludovic Troian-Gautier Alexandru Vlad	FR [q1] [45h+45h] [6 Credits]
⊠ LCHM1341	Organic chemistry III	Raphaël Robiette	FR [q2] [30h+15h] [4 Credits]
⊠ LCHM1253	Elements of crystallography	Yaroslav Filinchuk	FR [q1] [30h+10h] [4 Credits]
⊠ LCHM1254	Elements of molecular spectroscopy	Sophie Hermans	FR [q2] [30h+20h] [4 Credits]
⊠ LANG1864	Interactive English for students in Chemistry	Adrien Kefer (coord.)	EN [q1] [30h] [3 Credits]

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 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.

CHIM2M - 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
- > Holders of a non-University 2nd cycle degree
- > Access based on validation of professional experience
- > Access based on application
- > Admission and Enrolment Procedures for general registration

Specific access requirements

As this program is taught in English,

1. Applicants must provide **proof of sufficient English proficienc** y (level B2 or higher, as demonstrated by a TOEFL or IELTS test) in addition to meeting the admission requirements described below.
2. No prior proof of French proficiency is required, **except for applicants who meet the "Admission with Additional Training" or "Admission by Application" criteria** . In these two cases, additional refresher courses may be required, and these will be taught in French. Applicants in these categories are asked to **provide proof of French proficiency** at level B2 of the CEFR (Common European Framework of Reference for Languages).

University Bachelors

Diploma	Special Requirements	Access	Remarks
UCLouvain Bachelors			
Bachelor in Chemistry		Direct access	
Bachelor in Biology	S'il à suivi la Mineure en sciences chimiques	Access with additional training	
Bachelor in Bioengineering		Access based on application	
Others Bachelors of the French speaking Community of Belgium			
		Direct access	
Bachelors of the Dutch speaking Community of Belgium			
		Access with additional training	
Foreign Bachelors			
		Access based on application	

Non university Bachelors

> Find out more about links to the university

Diploma	Access	Remarks
BA en chimie, orientation biochimie - crédits supplémentaires entre 45 et 60	Les enseignements supplémentaires éventuels	Type court

BA en chimie, orientation biotechnologie - crédits supplémentaires entre 45 et 60 BA en chimie, orientation chimie appliquée - crédits supplémentaires entre 45 et 60 BA en chimie, orientation environnement - crédits supplémentaires entre 45 et 60	peuvent être consultés dans le module complémentaire .

Holders of a 2nd cycle University degree

Diploma	Special Requirements	Access	Remarks
"Licenciés"			
		Direct access	
Masters			
		Direct access	

Holders of a non-University 2nd cycle degree

Access based on validation of professional experience

It is possible, under certain conditions, to use one's personal and professional experience to enter a university course without having the required qualifications. However, validation of prior experience does not automatically apply to all courses. Find out more about Validation of priori experience .

Access based on application

Access based on application : access may be granted either directly or on the condition of completing additional courses of a maximum of 60 ECTS credits, or refused.

The first step in the procedure is to submit a file online (see https://uclouvain.be/en/study/inscriptions/futurs-etudiants.html).

Students who wish to be admitted on the basis of a dossier are invited to consult the criteria for the evaluation of application .

Admission and Enrolment Procedures for general registration

Teaching method

The program has been built as to

- maintain a reasonable volume of activities, compatible with the realization of a master thesis and a research training that properly prepares for the doctorate.
- promote interdisciplinarity (integrated practical works) and develop scientific communication skills (bibliographic research, presentation of seminars in French and English).

Evaluation

The evaluation methods comply with the Academic regulations and procedures . More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

The student will be evaluated mainly on the basis of his or her personal work (reading, consulting bibliographic databases and references, writing reports, presenting seminars, dissertation, internship, etc.).

The student will also be assessed on his capacity to assimilate the various courses. Where possible, evaluation will be continuous, including regular "open book" tests. The evaluation of the thesis will be done in two stages: during a progress report meeting and during the final presentation.

In order to obtain the average note, the grades obtained for the teaching units are weighted by their respective credit value.

If a student enrolled in a January examination has not been able to present the examination for duly justified reasons ("force majeure"), he may apply to the President of the Jury for permission to present the examination in June. The President of the Jury shall judge the relevance of the application and, if the course holder agrees, may authorize the student to present the examination in June.

Mobility and/or Internationalisation outlook

Two mobility schemes (30 credits) are provided for in the Master's in-depth program:

- Erasmus-Socrates or Mercator research internship outside Belgium, or internship in another Belgian institution, including courses or practical work (according to agreements to be negotiated with the host institution)
- An internship (15 credits) in a UCLouvain laboratory different from the one where the thesis will be carried out, and practical work complements to familiarize the student with the main techniques in the different orientations of chemistry (15 credits, 180 hours, or 4.5 weeks).

In the specialised master's program, the same principle of mobility of 30 or 15 credits will be possible, with a preference for an internship in an industrial company, Belgian or foreign.

The mobility is ideally performed in the 2nd term of the 1st year. Master thesis and complementary training are the focus of the 2nd year of the master degree.

The list of destinations as well as the arrangements for organizing international mobility are available at https://uclouvain.be/fr/facultes/sc/programmes-d-echange-d-etudiants.html

Possible trainings at the end of the programme

Whatever focus is chosen, the Master in Chemistry gives direct access to the doctorate in science.

Contacts

Additional information

You will find additional information

- on the website of the School of Chemistry https://uclouvain.be/fr/facultes/sc/chim
- on the website of the Faculty of Science https://uclouvain.be/en/faculties/sc

Curriculum Management

Entity

Structure entity	SST/SC/CHIM
Denomination	(CHIM)
Faculty	Faculty of Science (SC)
Sector	Sciences and Technology (SST)
Acronym	CHIM
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Academic supervisor: olivier.riant@uclouvain.be

Jury

- President: jean-francois.gohy@uclouvain.be
- Secretary and study advisor: tom.leyssens@uclouvain.be

Useful Contact(s)

- Administrative manager for the student's annual program: aloysia.stephenne@uclouvain.be