UCLouvain

CHIM2M1

2024 - 2025

Master [60] in Chemistry

CHIM2M1 - Introduction

Introduction

CHIM2M1 Programme

Detailed programme by subject

CORE COURSES [60.0]

- 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...)

Mémoire et séminaire (19 credits)

LCHM2290	Thesis tutorial	Ariane Halleux Olivier Riant	EN [q1] [15h] [3 Credits] *> French-friendly*
LCHM2995	Mémoire		FR [] [] [16 Credits] *> English-friendly*

Formation disciplinaire de base (33 credits)

Cours de formation disciplinaire générale (24 credits)

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

Compléments de cours obligatoires (9 credits)

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

un cours parmi les 4 suivants : (3 credits)

LCHM2151	Advanced mass spectrometry	Charles-André Fustin	EN [q1] [22.5h+7.5h] [3 Credits] *> French-friendly*
LCHM2152	NMR Complements	Michael Singleton	EN [q1] [22.5h+7.5h] [3 Credits] *> French-friendly*
LCHM2122	Analysis physical methods of solids	Charles-André Fustin Yann Garcia	EN [q1] [30h] [3 Credits] *> French-friendly*
LBIR1346	Surface and colloid chemistry	Christine Dupont Aurélien vander Straeten (compensates Christine Dupont)	EN [q2] [30h] [3 Credits]

Compléments de cours disciplinaires (6 credits)

LCHM2143	Physical organic chemistry	Raphaël Robiette	EN [q1] [22.5h+7.5h] [3 Credits] *> French-friendly*

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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⊠ 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	Elements of physical molecular chemistry	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	Christine Dupont Yann Garcia	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]
⊠ LANG1863	English for Students in Sciences (Upper-Intermediate level)	Ahmed Adrioueche (coord.) Catherine Avery (coord.) Amandine Dumont (coord.) Sandrine Jacob (coord.) Adrien Kefer (compensates Amandine Dumont) Nevin Serbest Florence Simon (coord.) Marine Volpe	EN [q1 or q2] [30h] [3 Credits]

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.

CHIM2M1 - 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

Specific access requirements

Since this program is taught in English, no prior proof of French language proficiency is required.

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

University Bachelors

Diploma	Special Requirements	Access	Remarks
UCLouvain Bachelors			
Bachelor in Chemistry			

BA en chimie, orientation biochimie - crédits supplémentaires entre 45 et 60 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	Les enseignements supplémentaires éventuels

Teaching method

The programme has been designed to

- maintain a reasonable amount of student activities, compatible with producing a dissertation and training for research which gives adequate preparation for a doctorate
- promote interdisciplinarity (integrated practical work) and develop scientific communication skills (bibliographic research, presentation of seminars in French and English).

Evaluation

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".

Students will mainly be assessed on the basis of individual work (e.g. reading, consultation of databases and bibliographic references, writing monographs and reports, presentation of seminars, dissertation and work placement). Where necessary, students will also be assessed on how much they have learned from lectures. As far as possible, there will be continuous assessment, including regular 'open book examinations'. Certain activities will not be given a precise mark but will be officially certified. Assessment of the dissertation is in two stages : a 'progress report' at the end of the first year of the Master and the final presentation.

Possible trainings at the end of the programme

The only university training directly accessible from the 60 credit Master is teacher training. (30 credits).

It is also possible, in one year, to gain the 120 credit Master in Chemistry. This gives access to doctorates and Advanced Masters. In this case, 42 credits may be valid, as well as a part of the work for the dissertation.

Contacts

Curriculum Management

Entity

Structure entity	SST/SC/CHIM
Denomination	(CHIM)
Faculty	Faculty of Science (SC)
Sector	Sciences and Technology (SST)
Acronym	CHIM
Postal address	Place Louis Pasteur 1 - bte L4.01.07 1348 Louvain-la-Neuructure entity