CHIM2M1

2013 - 2014

Master [60] in Chemistry

At Louvain-la-Neuve - 60 credits - 1 year - Day schedule - In french
Dissertation/Graduation Project : **YES** - Internship : **NO**
Activities in English: **YES** - Activities in other languages : **NO**
Activities on other sites : **NO**
Main study domain : **Sciences**
Organized by: **Faculté des sciences (SC)**
Programme code: **chim2m1** - European Qualifications Framework (EQF): 7

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CHIM2M1 - Introduction

CHIM2M1 - Admission

For the specific conditions of this program : refer to the French version

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

CHIM2M1 - Information

Learning outcomes

The Master in Chemistry (60 credits) is clearly different from the 120 credit Master in Chemistry ; although it only takes a year of study, it is inspired by the same objectives, but aims in a more modest way to build on and refine the training in the bachelorâ€™s degree.

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

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.

CHIM2M1 - Contacts

Curriculum Managment

Entite de la structure CHIM

Acronyme	**CHIM**
Dénomination	Ecole de chimie
Adresse	Place Louis Pasteur, 1 bte L4.01.07 1348 Louvain-la-Neuve Tél 010 47 40 45 - Fax 010 47 28 36
Site web	https://www.uclouvain.be/chim
Secteur	Secteur des sciences et technologies (SST)
Faculté	Faculté des sciences (SC)
Commission de programme	Ecole de chimie (CHIM)

Academic Supervisor : Jean-François Gohy

Jury

Président : **Daniel Peeters**
Secrétaire : **Jean-François Gohy**

Usefull Contacts

Secrétaire de l'Ecole de chimie : **Françoise Somers**

CHIM2M1 - Detailled programme

Programme structure

The Master in Chemistry (60 credits) is clearly different from the 120 credit Master in Chemistry ; although it only takes a year of study, it is inspired by the same objectives, but aims in a more modest way to build on and refine the training in the bachelorâ€™s degree.

Core study

> Detailed programme *[en-prog-2013-chim2m1-lchim200t.html]*

Programme by subject

Core courses [60.0]

O Mandatory	⊠ Optional
△ Courses not taught during 2013-2014	⊘ Periodic courses not taught during 2013-2014
⊕ Periodic courses taught during 2013-2014	⧺ Two years course

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

O *Formation disciplinaire de base (36 credits)*

O Cours de formation disciplinaire générale (27 credits)

O LCHM2120	Analytical Chemistry II and exercises	Yann Garcia	30h+40h	6 Credits	1q
O LCHM2130	Inorganic chemistry II and Exercises	Michel Devillers, Sophie Hermans (compensates Michel Devillers)	30h+45h	6 Credits	1q
O LCHM2140	Organic chemistry IV and exercices	Benjamin Elias (coord.), Istvan Marko, Olivier Riant	30h+40h	6 Credits	
O LCHM2150	Physical chemistry II	Tom Leyssens, Daniel Peeters	45h+10h	5 Credits	1q
O LCHM2180	Integrated practical exercises	Michel Devillers, Benjamin Elias, Yann Garcia, Sophie Hermans (compensates Michel Devillers), Daniel Peeters, Olivier Riant (coord.)	0h+45h	4 Credits	

O Compléments de cours obligatoires (9 credits)

O LCHM2181	Homogeneous and heterogeneous catalysis	Eric Gaigneaux, Olivier Riant (coord.)	22.5h+7.5h	3 Credits	1q
O LCHM2170	Introduction to protein biotechnology	Pierre Morsomme, Patrice Soumillion	22.5h+7.5h	3 Credits	

O un cours de spectroscopie choisi parmi (3 credits)

⊠ LCHM2151	Advanced mass spectrometry	Charles-André Fustin	22.5h+7.5h	3 Credits	1q
⊠ LCHM2152	NMR Complements	Michel Luhmer	22.5h+7.5h	3 Credits	1q
⊠ LCHM2122	Analysis physical methods of solids	Charles-André Fustin, Yann Garcia (coord.)	30h	3 Credits	1q

Compléments de cours disciplinaires (3 credits)

Choix de cours dans la liste comprenant :

les enseignements à option de bac3 non suivis

LCHM1343	Industrial organic chemistry	Istvan Marko	22.5h+7.5h	3 Credits	1q
LCHM1353	Quantum Chemistry	Daniel Peeters	22.5h+7.5h	3 Credits	1q
LCHM1382	Nuclear chemistry	Pascal Froment	22.5h+7.5h	3 Credits	1q
LCHM2143	Physical organic chemistry	Olivier Riant, Raphaël Robiette	22.5h+7.5h	3 Credits	1q
LCHM2153	Applied chemical kinetics	N.	22.5h+7.5h	3 Credits	Δ
LBBMC2101	Biochimie structurale et fonctionnelle	Pierre Morsomme, Patrice Soumillion	36h+6h	3 Credits	

des enseignements du programme BIR12BA, BIR13BA ou FSA12BA

Compétences transversales

2 crédits à suivre obligatoirement

un cours de philosophie parmi (2 credits)

LSC2001	Introduction to contemporary philosophy	Nathalie Frogneux	30h	2 Credits	2q Δ
LSC2220	Philosophy of science	Alexandre Guay	30h	2 Credits	2q
LFILO2003E	Ethics in the Sciences and technics (sem)	N.		2 Credits	
LCHM2995	Mémoire	N.		16 Credits	
LCHM2290	Thesis tutorial	Annick Sonck	0h+30h	3 Credits	