

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 :

CHIM2M - Introduction

Introduction

Introduction




This master's degree trains top-level scientists able to solve contemporary problems linked. fC uehk itorarvidentile tilinheoreticalm [()] TJ 1 0 0 -.692104.

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

Year

1 2

o deux cours parmi les quatre suivants : (6 credits)


⌘ 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	Analysis physical methods of solids	Charles-André Fustin Yann Garcia	EN [q1] [30h] [3 Credits]  > French-friendly	X	X
⌘ LBIR1346	Surface and colloid chemistry	Christine Dupont Aurélien vander Straeten (compensates Christine Dupont)	EN [q2] [30h] [3 Credits] 	X	X

o Mémoire et séminaire (30 credits)

o LCHM2999	Master's thesis	Olivier Riant (coord.)	EN [q2] [] [27 Credits]  > French-friendly		X
o LCHM2290	Thesis tutorial	Ariane Halleux Olivier Riant	EN [q1] [15h] [3 Credits]  > French-friendly		X

o Compétences transversales (2 credits)

o un cours de philosophie parmi

⌘ LSC2001	Introduction to contemporary philosophy	Peter Verdée Peter Verdée (compensates Charles Pence)	EN [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 (compensates Charles Pence) Hervé Jeanmart René Rezsóhazy	EN [q2] [15h+15h] [2 Credits] 	X	X

LIST OF FOCUSES

Three 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 ;
- « didactic »: this direction leads to the teaching profession.

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](#)

o Content:

o Module concevoir, planifier et évaluer des pratiques d'enseignement et d'apprentissage

o LSCI2320	Didactics and epistemology of science	Myriam De Kesel (coord.) Marc de Wergifosse Gabriel Dias de Carvalho Junior	EB [q1] [22.5h] [2 Credits]	X	X
o LCHM2310	Teaching internships in chemistry (including the internship integration seminar)	Marc de Wergifosse	EB [q1+q2] [15h+40h] [7 Credits]	X	X
o LCHM2340	Didactics and epistemology of chemistry	Marc de Wergifosse (coord.) Nathalie Mathys	EB [q1+q2] [37.5h] [4 Credits]	X	X
o LAGRE2220	General didactics and education to interdisciplinarity	Stéphane Colognesi Severine De Croix Myriam De Kesel Jean-Louis Dufays Anne Ghysselinckx Véronique Lemaire Benoît Vercruyse	EB [q1+q2] [37.5h] [3 Credits]	X	X

o Une activité à choisir parmi (4 credits)

EB LBIO2340	Didactics and Epistemology of Biology	Myriam De Kesel	EB [q1+q2] [37.5h+0h] [4 Credits]	X	X
EB LPHYS2471	Didactics and Epistemology of Physics	Gabriel Dias de Carvalho Junior	EB [q1+q2] [37.5h] [4 Credits]	X	X
EB LMAT2320A	Didactique et épistémologie de la mathématique (en ce compris le stage d'écoute)	Cécile Coyette Sonia Ghorbal Laure Ninove (coord.)	EB [q1+q2] [37.5h+10h] [4 Credits]	X	X
EB LGEO2320A	Didactique et épistémologie de la géographie (en ce compris le stage d'écoute)	Marie-Laurence De Keersmaecker	EB [q1] [37.5h+10h] [4 Credits]	X	X

o Module comprendre et analyser l'institution scolaire et son contexte

o

PROFESSIONAL FOCUS : INDUSTRIAL CHEMISTRY [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, ...)

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

Year

1 2

o Content:

● LCHM2275	Stage en entreprise		EN [q2] [] [30 Credits] 🌐 > French-friendly	X	
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OPTIONS

- > [Optional courses](#) [en-prog-2024-chim2m-lsc100o]
- > [INEO, Interdisciplinary training in entrepreneurship](#) [en-prog-2024-chim2m-lboe955o]

OPTIONAL COURSES

- Mandatory
- ⊗ Optional
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- ⊖ 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
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- [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.

Year

1 2

o Content:

⊗ LSST1001	IngénieursSud	Stéphanie Merle Jean-Pierre Raskin	FR [q1+q2] [15h+45h] [5 Credits] 🌐	X	X
⊗ LSST1002M	Information and critical thinking - MOOC	Anne Bauwens (compensates Jean-François Rees) Myriam De Kesel	FR [q2] [30h+15h] [3 Credits] 🌐	X	X

INEO, INTERDISCIPLINARY TRAINING IN ENTREPRENEURSHIP

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 - ✘ Optional
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 - ⊕ Offered in 2024-2025 but not the following year
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 - Activity with requisites
 - 🌐 Open to incoming exchange students
 - 🚫🌐 Not open to incoming exchange students
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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.

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

Denomination

Faculty

Sector

Acronym

Postal address

SST/SC/CHIM

(CHIM)

Faculty of Science (SC)

Sciences and Technology (SST)

CHIM

Place Louis Pasteur 1 - bte L4.01.07

1348 Louvain-la-Neuve

Tel: +32 (0) 10 47 40 45 - Fax: +32 (0) 10 47 28 36

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

Website

Academic supervisor: [Olivier Riant](#)

Jury

- President: [Jean-François Gohy](#)
- Secretary and study advisor: [Tom Leyssens](#)

Useful Contact(s)

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

