

At Louvain-la-Neuve - 180 credits - 3 years - Day schedule - In frenchDissertation/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: **Faculté des sciences (SC)**Programme acronym: **chim1ba** - Francophone Certification Framework: 6**Table of contents**

Introduction	2
Teaching profile	3
- Learning outcomes	3
- Programme structure	3
- Detailed programme	5
- Programme by subject	5
- List of available minors	8
- Course prerequisites	8
- The programme's courses and learning outcomes	8
- Programme type	8
- CHIM1BA - 1st annual unit	9
- CHIM1BA - 2nd annual unit	10
- CHIM1BA - 3rd annual unit	11
Information	13
- Admission	13
- Teaching method	15
- Evaluation	15
- Mobility and/or Internationalisation outlook	15
- Possible trainings at the end of the programme	15
- Contacts	15

CHIM1BA - Introduction

Introduction

CHIM1BA - Teaching profile

Learning outcomes

The programme aims at :

- the acquisition of general knowledge and skills in the principal subjects of the Exact Sciences (Biology, Chemistry, Mathematics and Physics) and a deepening of the basic knowledge and skills in the various domains of Chemistry
- the acquisition of rigour in reasoning and in written and oral expression, a critical spirit and the capacity to solve scientific problems, particularly those relevant to the disciplines of Chemistry
- the acquisition of transversal skills (Human Sciences, computing, management, English, written and oral communication), with a view to enhancing the generalist character of the training programme as well as the chances of getting a foot-hold on the job market upon successful completion of the studies.

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

1. Maîtriser un ensemble de « savoirs scientifiques » permettant de résoudre des problématiques de chimie

1.1 Identifier et utiliser de manière critique les connaissances « essentielles » des sciences fondamentales : biologie, chimie, mathématique, physique pour résoudre une problématique donnée

1.2 Identifier et utiliser de manière critique les savoirs « spécialisés » de la chimie : organique, inorganique, analytique, physique pour résoudre un problème complexe de chimie.

2. Réaliser une démarche scientifique, théorique ou expérimentale, complète appliquée à l'appréhension, à l'analyse ou au développement d'une réaction chimique

2.1 Définir une problématique en des termes scientifiques rigoureux

2.2 Intégrer les connaissances acquises pour la formulation du problème en termes d'hypothèses permettant de proposer une solution pertinente au problème de chimie posé

2.3 Etablir les relations structures-propriétés pour une molécule donnée

2.4 Maîtriser les techniques expérimentales fondamentales de la chimie

2.5 Synthétiser, isoler et purifier au laboratoire une molécule donnée et quantifier sa concentration en répétant des modes opératoires décrits précédemment

2.6 Evaluer le risque lié à la réalisation au laboratoire d'une réaction chimique et veiller à la sécurité de l'environnement et des personnes dans le respect des règles de l'art de la chimie.

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

3.1 Formuler des conclusions pour la rédaction rigoureuse d'un rapport dans un esprit de synthèse (en français).

3.2 Rédiger des documents techniques en chimie (en français et en anglais)

3.3 Communiquer à ses pairs sous forme synthétique, graphique et schématique les résultats d'un projet scientifique (en français).

4. Apprendre et agir de manière autonome

4.1 Intégrer de manière autonome de nouvelles connaissances et compétences

4.2 Gérer de façon autonome sa formation et l'organisation de son travail

4.3 S'auto-évaluer en connaissant ses compétences et les limites de sa propre expertise

5. Faire preuve d'analyse critique et de rigueur scientifique

5.1 Analyser et exploiter des documents scientifiques et techniques en vue de résoudre une problématique de chimie.

5.2 Témoigner d'une ouverture d'esprit, accepter des approches innovantes pour résoudre des problèmes de chimie

5.3 Critiquer une démarche expérimentale et proposer des améliorations

5.4 Rassembler et traiter des données scientifiques pertinentes (en français et anglais) et en faire l'analyse critique

5.5 Citer et référencer son travail conformément aux standards du monde scientifique, sans plagiat

Programme structure

The progressive orientation of the programme starts as from the first year of polyvalent studies. The programme in the first year focuses on the acquisition of basic knowledge in the sciences (Mathematics, Physics, Chemistry, Biology, Earth Sciences).

Upon successful completion of the first year, the students may re-orientate their studies, without the need for any complementary subjects, to the second year of the bachelor's of Biological Sciences and of Bio-engineering subject to taking an extra course in Geography (GEO 1111) and also of Geographical Sciences.

From the second year on, besides the major in Chemistry, the students will choose a minor or complete their programme with courses selected from among those on offer. There is a minor in Biology. The students may also choose another minor based on a project to be elaborated with the approval of the study advisor.

The possibility of selecting options helps the students to prepare for their future orientation.

Students are given the opportunity to elaborate a personal work project and to write a report summarising it.

Ongoing evaluations are organised with special attention paid to interdisciplinary comprehension of the subject matters.

Principal Subjects

Biochemistry (9 credits)

Biology (11 credits)

General Chemistry (16 credits)

Inorganic and Analytical Chemistry (17 credits)

Organic Chemistry (19 credits)

Physical Chemistry (12 credits)

The Chemistry of Polymers (2 credits)

Cristallography and Mollecular Spectroscopy (8 credits)

Quantitative Processing of Chemical data (3 credits)

General Mathematics (18 credits)

General Physics (20 credits)

Earth Sciences (6 credits)

English (6 credits)

Human Sciences (5 credits)

Computing tools and Documentary Research or project (3 credits)

CHIM1BA Detailed programme

Programme by subject

Year

1	2	3
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o Majeure (150 credits)

o biochimie (9 credits)

○ LCHM1271	Elements of biochemistry	Patrice Soumillion	30h+24h	4 Credits	1q		x	
○ LCHM1371	Metabolic Biochemistry	Melissa Page Patrice Soumillion	30h+30h	5 Credits	2q			x

o Chimie générale (19 credits)

○ LCHM1111	General chemistry	Michel Devillers	45h +67.5h	11 Credits	1q	x		
○ LCHM1211	General Chemistry 2	Michel Devillers Geoffroy Hautier	45h+60h	8 Credits	2q		x	

o Chimie inorganique et analytique (17 credits)

○ LCHM1231	Elements of inorganic and analytical chemistry	Michel Devillers	30h+50h	5 Credits	2q		x	
○ LCHM1331	Inorganic chemistry I	Michel Devillers Sophie Hermans (compensates Michel Devillers)	37.5h +7.5h	4 Credits	1q			x
○ LCHM1321	Chimie analytique 1	Christine Dupont (coord.) Yann Garcia	40h	5 Credits	1q			x
○ LCHM1322	Exercices in analytical chemistry	Christine Dupont Yann Garcia (coord.)	0h+66h	3 Credits	1q			x

o Chimie organique (23 credits)

○ LCHM1141	Organic chemistry	Benjamin Elias (coord.) Charles-André Fustin	30h+40h	7 Credits	2q	x		
○ LCHM1241A	Organic chemistry 2	Olivier Riant	30h +22.5h	4 Credits	1q		x	
○ LCHM1241B	Chimie organique 2 (2e partie)	Michael Singleton	30h +47.5h	5 Credits	2q			x
○ LCHM1341	Organic chemistry III	Olivier Riant Raphaël Robiette	30h+15h	4 Credits	2q			x
○ LCHM1342	Exercices in organic chemistry I	Raphaël Robiette Michael Singleton	0h+65h	3 Credits	2q			x

o Chimie physique (14 credits)

○ LCHM1252	Elements of physical molecular chemistry	Geoffroy Hautier	45h +22.5h	6 Credits	2q		x	
○ LCHM1351	Physical chemistry	Tom Leyssens	45h+19h	5 Credits	1q			x
○ LCHM1352	Physical methods of chemistry	Tom Leyssens	0h+60h	3 Credits	2q			x

o Chimie des polymères (3 credits)

○ LCHM1361	Introduction to polymer chemistry	Jean-François Gohy	22.5h	3 Credits	2q			x
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o Cristallographie et spectroscopie moléculaire (8 credits)

○ LCHM1251B	Eléments de cristallographie et de spectroscopie moléculaire (partie Eléments de cristallographie) 🟡	Yaroslav Filinchuk	30h+10h	4 Credits	1q	x		
○ LCHM1251C	Eléments de cristallographie et spectroscopie moléculaire (partie Eléments de spectroscopie moléculaire) 🟡	Sophie Hermans	30h+20h	4 Credits	2q	x		

o Chimie des matériaux (5 credits)

○ LCHM1319	Material's chemistry 🟡		45h	5 Credits	2q Δ			x
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o Mathématiques (8 credits)

○ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	30h+20h	4 Credits	1q	x		
○ LMAT1102	Mathematics 2	Julien Federinov (compensates Augusto Ponce) Augusto Ponce	30h+30h	4 Credits	2q	x		

o Biologie (14 credits)

○ LBIO1110	Life : diversity and evolution	Patrick Dumont Thierry Hance Caroline Nieberding (coord.)	30h+10h	4 Credits	1q	x		
○ LBIO1111	Cell and molecular biology	André Lejeune	30h+20h	5 Credits	1q	x		
○ LBIO1112	Organism biology : plants and animals	André Lejeune Jean-François Rees	30h+20h	5 Credits	2q	x		

o Physique (13 credits)

○ LPHY1101	Physics 1	Thierry Fichet	30h+40h	6 Credits	1q	x		
○ LPHY1102	Physics 2	Vincent Lemaitre	54h+36h	7 Credits	2q	x		

o Sciences de la terre (5 credits)

○ LBIR1130	Introduction to Earth sciences	Pierre Delmelle (coord.) Sophie Opfergelt	30h+30h	5 Credits	2q	x		
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o Anglais (8 credits)

○ LANG1861	English: reading and listening comprehension of scientific texts	Ahmed Adriouèche (coord.) Catherine Avery Fanny Desterbecq Amandine Dumont	10h	2 Credits	2q	x		
○ LANG1862	English: reading and listening comprehension of scientific texts 🟡	Ahmed Adriouèche (coord.) Amandine Dumont Ariane Halleux (coord.)	30h	3 Credits	1q	x		
○ LANG1863	English for Students in Sciences (Upper-Intermediate level) 🟡	Ahmed Adriouèche (coord.) Catherine Avery (coord.) Amandine Dumont (coord.) Maité Dupont (compensates Colleen Starrs) Sandrine Jacob (coord.) Sabrina Knorr Nevin Serbest Colleen Starrs Françoise Stas (coord.)	30h	3 Credits	1 ou 2q			x

Year

1 2 3

o Sciences humaines

o Philosophie

L'étudiant-e choisit

De 2 à 4 CREDITS parmi

⊗ LFILO1250A	Logic (partim)	Peter Verdée	45h	4 Credits	2q			x
⊗ LSC1120A	Philosophy	Alexandre Guay Olivier Sartenaer	30h	2 Credits	1q			x

o Sciences religieuses (2 credits)

L'étudiant-e choisit 2 crédits parmi les cours suivants

⊗ LTECO2100	Sociétés, cultures, religions : Biblical readings	Hans Ausloos	15h	2 Credits	1q			x
⊗ LTECO2200	Societies-cultures-religions : Human Questions	Régis Burnet Dominique Martens	15h	2 Credits	1 ou 2q			x
⊗ LTECO2300	Societies, cultures, religions : Ethical questions	Marcela Lobo Bustamante	15h	2 Credits	1q			x

o Approfondissement ou Mineure (30 credits)

L'étudiant complète sa formation en choisissant un approfondissement ou une mineure dans la liste proposée pour le bachelier en sciences chimiques. Il répartit les unités d'enseignement dans le 2e et le 3e bloc annuel, de manière à ce que son programme annuel totalise 60 crédits.

o	Approfondissement ou Mineure (1e partie)			Credits				x
o	Approfondissement ou Mineure (2e partie)			Credits				x

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.

- > [Additionnal module in Chemistry](https://www.uclouvain.be/en-prog-2019-app-lchim100p) [<https://www.uclouvain.be/en-prog-2019-app-lchim100p>]
- > [Minor in Biology](https://www.uclouvain.be/en-prog-2019-min-lbiol100i) [<https://www.uclouvain.be/en-prog-2019-min-lbiol100i>]
- > [Minor in Criminology](https://www.uclouvain.be/en-prog-2019-min-lcrim100i) [<https://www.uclouvain.be/en-prog-2019-min-lcrim100i>]
- > [Minor in Culture and Creation](https://www.uclouvain.be/en-prog-2019-min-lcucr100i) [<https://www.uclouvain.be/en-prog-2019-min-lcucr100i>]
- > [Minor in Development and Environment](https://www.uclouvain.be/en-prog-2019-min-ldenv100i) [<https://www.uclouvain.be/en-prog-2019-min-ldenv100i>]
- > [Minor in Economics \(open\)](https://www.uclouvain.be/en-prog-2019-min-loeco100i) [<https://www.uclouvain.be/en-prog-2019-min-loeco100i>]
- > [Minor in Gender Studies](https://www.uclouvain.be/en-prog-2019-min-lgenr100i) [<https://www.uclouvain.be/en-prog-2019-min-lgenr100i>]
- > [Minor in Information and Communication Studies and Technologies](https://www.uclouvain.be/en-prog-2019-min-lstic100i) [<https://www.uclouvain.be/en-prog-2019-min-lstic100i>]
- > [Minor in Scientific Culture](https://www.uclouvain.be/en-prog-2019-min-lcusc100i) [<https://www.uclouvain.be/en-prog-2019-min-lcusc100i>]
- > [Minor in Sustainable Development \(*\)](https://www.uclouvain.be/en-prog-2019-min-ldvld100i) [<https://www.uclouvain.be/en-prog-2019-min-ldvld100i>]
- > [Minor in entrepreneurship \(*\)](https://www.uclouvain.be/en-prog-2019-min-lmpme100i) [<https://www.uclouvain.be/en-prog-2019-min-lmpme100i>]

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

Course prerequisites

A document entitled [en-prerequis-2019-chim1ba.pdf](#) specifies the activities (course units - CU) with one or more pre-requisite(s) within the study programme, that is the CU whose learning outcomes must have been certified and for which the credits must have been granted by the jury before the student is authorised to sign up for that activity.

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

As the prerequisites are a requirement of enrolment, there are none within a year of a course.

The prerequisites are defined for the CUs for different years and therefore influence the order in which the student can enrol in the programme's CUs.

In addition, when the panel validates a student's individual programme at the beginning of the year, it ensures the consistency of the individual programme:

- It can change a prerequisite into a corequisite within a single year (to allow studies to be continued with an adequate annual load);
- It can require the student to combine enrolment in two separate CUs it considers necessary for educational purposes.

For more information, please consult [regulation of studies and exams](#).

The programme's courses and learning outcomes

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document "*In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?*"

The document is available by clicking [this link](#) after being authenticated with your UCLouvain account.

Programme type

CHIM1BA - 1ST ANNUAL UNIT

○ Mandatory

△ Courses not taught during 2019-2020

⊕ Periodic courses taught during 2019-2020

⊗ Optional

⊖ Periodic courses not taught during 2019-2020

■ Activity with requisites

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

o Majeure**o Chimie générale**

○ LCHM1111	General chemistry	Michel Devillers	45h +67.5h	11 Credits	1q
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o Chimie organique

○ LCHM1141	Organic chemistry	Benjamin Elias (coord.) Charles-André Fustin	30h+40h	7 Credits	2q
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o Mathématiques

○ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	30h+20h	4 Credits	1q
○ LMAT1102	Mathematics 2	Julien Federinov (compensates Augusto Ponce) Augusto Ponce	30h+30h	4 Credits	2q

o Biologie

○ LBIO1110	Life : diversity and evolution	Patrick Dumont Thierry Hance Caroline Nieberding (coord.)	30h+10h	4 Credits	1q
○ LBIO1111	Cell and molecular biology	André Lejeune	30h+20h	5 Credits	1q
○ LBIO1112	Organism biology : plants and animals	André Lejeune Jean-François Rees	30h+20h	5 Credits	2q

o Physique

○ LPHY1101	Physics 1	Thierry Fichet	30h+40h	6 Credits	1q
○ LPHY1102	Physics 2	Vincent Lemaitre	54h+36h	7 Credits	2q

o Sciences de la terre

○ LBIR1130	Introduction to Earth sciences	Pierre Delmelle (coord.) Sophie Opfergelt	30h+30h	5 Credits	2q
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o Anglais

○ LANG1861	English: reading and listening comprehension of scientific texts	Ahmed Adriouche (coord.) Catherine Avery Fanny Desterbecq Amandine Dumont	10h	2 Credits	2q
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CHIM1BA - 2ND ANNUAL UNIT

● Mandatory

△ Courses not taught during 2019-2020

⊕ Periodic courses taught during 2019-2020

⊗ Optional

⊖ Periodic courses not taught during 2019-2020

■ Activity with requisites

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

o Majeure**o biochimie**

● LCHM1271	Elements of biochemistry ■	Patrice Soumillion	30h+24h	4 Credits	1q
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o Chimie générale

● LCHM1211	General Chemistry 2 ■	Michel Devillers Geoffroy Hautier	45h+60h	8 Credits	2q
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o Chimie inorganique et analytique

● LCHM1231	Elements of inorganic and analytical chemistry ■	Michel Devillers	30h+50h	5 Credits	2q
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o Chimie organique

● LCHM1241A	Organic chemistry 2 ■	Olivier Riant	30h +22.5h	4 Credits	1q
● LCHM1241B	Chimie organique 2 (2e partie) ■	Michael Singleton	30h +47.5h	5 Credits	2q

o Chimie physique

● LCHM1252	Elements of physical molecular chemistry ■	Geoffroy Hautier	45h +22.5h	6 Credits	2q
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o Cristallographie et spectroscopie moléculaire

● LCHM1251B	Eléments de cristallographie et de spectroscopie moléculaire (partie Eléments de cristallographie) ■	Yaroslav Filinchuk	30h+10h	4 Credits	1q
● LCHM1251C	Eléments de cristallographie et spectroscopie moléculaire (partie Eléments de spectroscopie moléculaire) ■	Sophie Hermans	30h+20h	4 Credits	2q

o Anglais

● LANG1862	English: reading and listening comprehension of scientific texts ■	Ahmed Adriouche (coord.) Amandine Dumont Ariane Halleux (coord.)	30h	3 Credits	1q
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o Sciences humaines**o Sciences religieuses**

L'étudiant-e choisit 2 crédits parmi les cours suivants

⊗ LTECO2100	Sociétés, cultures, religions : Biblical readings	Hans Ausloos	15h	2 Credits	1q
⊗ LTECO2200	Societies-cultures-religions : Human Questions	Régis Burnet Dominique Martens	15h	2 Credits	1 ou 2q
⊗ LTECO2300	Societies, cultures, religions : Ethical questions	Marcela Lobo Bustamante	15h	2 Credits	1q

o Approfondissement ou Mineure

L'étudiant complète sa formation en choisissant un approfondissement ou une mineure dans la liste proposée pour le bachelier en sciences chimiques. Il répartit les unités d'enseignement dans le 2e et le 3e bloc annuel, de manière à ce que son programme annuel totalise 60 crédits.

●	Approfondissement ou Mineure (1e partie)			Credits	
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CHIM1BA - 3RD ANNUAL UNIT

○ Mandatory

△ Courses not taught during 2019-2020

⊕ Periodic courses taught during 2019-2020

⊗ Optional

⊖ Periodic courses not taught during 2019-2020

■ Activity with requisites

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

o Majeure**o biochimie**

○ LCHM1371	Metabolic Biochemistry ■	Melissa Page Patrice Soumillion	30h+30h	5 Credits	2q
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o Chimie inorganique et analytique

○ LCHM1331	Inorganic chemistry I ■	Michel Devillers Sophie Hermans (compensates) Michel Devillers)	37.5h +7.5h	4 Credits	1q
○ LCHM1321	Chimie analytique 1 ■	Christine Dupont (coord.) Yann Garcia	40h	5 Credits	1q
○ LCHM1322	Exercices in analytical chemistry ■	Christine Dupont Yann Garcia (coord.)	0h+66h	3 Credits	1q

o Chimie organique

○ LCHM1341	Organic chemistry III ■	Olivier Riant Raphaël Robiette	30h+15h	4 Credits	2q
○ LCHM1342	Exercices in organic chemistry I ■	Raphaël Robiette Michael Singleton	0h+65h	3 Credits	2q

o Chimie physique

○ LCHM1351	Physical chemistry ■	Tom Leyssens	45h+19h	5 Credits	1q
○ LCHM1352	Physical methods of chemistry ■	Tom Leyssens	0h+60h	3 Credits	2q

o Chimie des polymères

○ LCHM1361	Introduction to polymer chemistry ■	Jean-François Gohy	22.5h	3 Credits	2q
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o Chimie des matériaux

○ LCHM1319	Material's chemistry ■		45h	5 Credits	2q △
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o Anglais

○ LANG1863	English for Students in Sciences (Upper-Intermediate level) ■	Ahmed Adriouche (coord.) Catherine Avery (coord.) Amandine Dumont (coord.) Maïté Dupont (compensates) Colleen Starrs Sandrine Jacob (coord.) Sabrina Knorr Nevin Serbest Colleen Starrs Françoise Stas (coord.)	30h	3 Credits	1 ou 2q
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o Sciences humaines**o Philosophie**

L'étudiant-e choisit

De 2 à 4 CREDITS parmi

⊗ LFILO1250A	Logic (partim)	Peter Verdée	45h	4 Credits	2q
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⌘ LSC1120A	Philosophy	Alexandre Guay Olivier Sartenaer	30h	2 Credits	1q
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o **Approfondissement ou Mineure**

L'étudiant complète sa formation en choisissant un approfondissement ou une mineure dans la liste proposée pour le bachelier en sciences chimiques. Il répartit les unités d'enseignement dans le 2e et le 3e bloc annuel, de manière à ce que son programme annuel totalise 60 crédits.

o	Approfondissement ou Mineure (2e partie)			Credits	
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CHIM1BA - Information

Admission

Decree of 7 November 2013 defining the landscape of higher education and the academic organization of studies.

The admission requirements must be met prior to enrolment in the University.

In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.

SUMMARY

- [General requirements](#)
- [Specific requirements](#)
- [Special requirements](#)

General requirements

Except as otherwise provided by other specific legal provisions, admission to undergraduate courses leading to the award of a Bachelor's degree will be granted to students with one of the following qualifications :

1. A Certificate of Upper Secondary Education issued during or after the 1993-1994 academic year by an establishment offering full-time secondary education or an adult education centre in the French Community of Belgium and, as the case may be, approved if it was issued by an educational institution before 1 January 2008 or affixed with the seal of the French Community if it was issued after this date, or an equivalent certificate awarded by the Examination Board of the French Community during or after 1994;
2. A Certificate of Upper Secondary Education issued no later than the end of the 1992-1993 academic year, along with official documentation attesting to the student's ability to pursue higher education for students applying for a full-length undergraduate degree programme;
3. A diploma awarded by a higher education institution within the French Community that confers an academic degree issued under the above-mentioned Decree, or a diploma awarded by a university or institution dispensing full-time higher education in accordance with earlier legislation;
4. A higher education certificate or diploma awarded by an adult education centre;
5. A pass certificate for one of the [entrance examinations](#) organized by higher education institutions or by an examination board of the French Community; this document gives admission to studies in the sectors, fields or programmes indicated therein;
6. A diploma, certificate of studies or other qualification similar to those mentioned above, issued by the Flemish Community of Belgium (this qualification does not grant exemption from the [French language proficiency examination](#)), the German Community of Belgium or the Royal Military Academy;
7. A diploma, certificate of studies or other qualification obtained abroad and deemed equivalent to the first four mentioned above by virtue of a law, decree, European directive or international convention;

Note:

Requests for equivalence must be submitted no later than 15 July 2019 to the Equivalence department ([Service des équivalences](#)) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium.

The following two qualifications are automatically deemed equivalent to the Certificate of Upper Secondary Education (Certificat d'enseignement secondaire supérieur – CESS):

- European Baccalaureate issued by the Board of Governors of a European School,
- International Baccalaureate issued by the International Baccalaureate Office in Geneva.

These two qualifications do not, however, provide automatic exemption from the [French language proficiency examination](#).

8. Official documentation attesting to a student's ability to pursue higher education (diplôme d'aptitude à accéder à l'enseignement supérieur - DAES), issued by the Examination Board of the French Community.

Specific requirements

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

- 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 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in physiotherapy and rehabilitation**

[Admission to undergraduate studies in physiotherapy and rehabilitation is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in psychology and education: speech and language therapy**

[Admission to undergraduate studies in psychology and education: speech and language therapy is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in medicine and dental science**

[Admission to undergraduate studies in medicine and dental science is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

Note: students wishing to enrol for a **Bachelor's degree in Medicine** or a **Bachelor's degree in dental science** must first sit [an aptitude test \(fr\)](#).

Teaching method

Des séances sont organisées au cours de la première année autour des questions de méthode de travail, par exemple la gestion du temps ou la manière d'aborder les différentes matières.

Les exercices et laboratoires sont organisés en petits groupes et sont encadrés par des assistants. Les monitorats permettent à ceux qui le souhaitent de faire le point sur les matières vues au cours : les enseignants de chaque discipline répondent aux questions des étudiants et expliquent les points moins bien compris.

La plupart des enseignements disposent également d'un site internet ou est déposée une série d'informations utiles pour l'étude.

Des cours au choix permettent aux étudiants de préparer leur orientation future.

La possibilité de réaliser un travail personnel et d'en rédiger un rapport de synthèse est offerte aux étudiants.

Outre des rapports à remettre ou des contrôles de connaissances au début de certaines séances de laboratoires, des interrogations obligatoires intervenant dans la note finale de chaque matière sont organisées après un mois de cours au premier quadrimestre.

Des évaluations continues sont mises en place avec une attention particulière sur la compréhension interdisciplinaire des matières.

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".

Différentes modalités sont mises en oeuvre pour l'évaluation des connaissances et des compétences acquises au cours de la formation; elles sont adaptées aux types de prestations : évaluation continue notamment pour les exercices pratiques, évaluation des travaux personnels et de groupe, évaluation globale (écrite et/ou orale) durant les sessions d'examens.

Mobility and/or Internationalisation outlook

Sauf cas exceptionnels, la mobilité internationale n'est recommandée que dans le cadre des programmes de master.

Possible trainings at the end of the programme

Positioning of the programme within the University cursus

The bachelor's degree in Chemical Sciences entitles automatic access to the master's programme in Molecular Chemistry, orientated towards the domains of applications, research or teaching.

Other studies accessible upon completion of the programme

If a minor in biology has been chosen, the bachelor's degree also access to the master's of Biochemistry and Molecular and Cellular Biology.

Contacts

Curriculum Management

Entity

Structure entity

Denomination

Faculty

Sector

Acronym

Postal address

Web site

SST/SC/CHIM

[\(CHIM\)](#)

Faculty of Science [\(SC\)](#)

Sciences and Technology [\(SST\)](#)

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