

CHIM1BA

2013 - 2014

Bachelor in Chemistry

At Louvain-la-Neuve - 180 credits - 3 years - Day schedule - In frenchDissertation/Graduation Project : **NO** - 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: **chim1ba** - European Qualifications Framework (EQF): 6**Table of contents**

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CHIM1BA - Introduction

CHIM1BA - Admission

Decree of March 31st 2004 defining higher education and favoring the integration of higher education and university refinancing in the European area)

The admission conditions must be fulfilled at the time of [enrolment at university](#).

[> General Condition](#)

[> Special Conditions](#)

[> Knowledge of the French language exam](#)

General Conditions

Except as otherwise provided by other special legal provisions and with a view to obtaining the academic degree that recognises them, admission to undergraduate courses is granted to students with either:

- A certificate of Further Secondary Education issued from the academic year 1993–1994 by a fully fledged secondary education establishment or a school of Continuing Education in the French Community and approved by the Board created for that purpose, and holders of the same certificate issued from the 1994 calendar year by the education board of the French Community;
- or a certificate of Further Secondary Education issued not later than the end of the school year 1992–1993 accompanied, for admission to degree-length undergraduate studies, by a proficiency diploma giving access to higher education;
- or a diploma issued by a higher education establishment of the French Community recognising an academic degree, or a diploma issued by a university institution or an establishment dispensing full-time higher education under previous legislation;
- or a higher education certificate issued by an improvement courses establishment;
- a pass certificate for one of the [entrance examinations](#) co-ordinated by the higher education establishments or by a French Community education board and whose curricula are approved by the Government after consultation, according to the sector, with the Interuniversity Council of the French Community (Conseil interuniversitaire de la Communauté française – CIUF) or the General Council of the Hautes Ecoles (Conseil général des Hautes Ecoles – CGHE); this certificate gives admission to studies in relevant sectors or fields;
- or a diploma, certificate or secondary school certificate similar to those mentioned above issued by the Flemish Community (this certificate does not give exemption from the [French Language Proficiency](#) exam), by the German-speaking Community or the Royal Military School;
- of a diploma, certificate or secondary school certificate outside Belgium and recognised as equivalent to those mentioned above.

Requests for equivalence must be submitted to the [Service des équivalences](#) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium before 15 July 2013.

Notes: the two following certificates are automatically recognised as equivalent to the Certificate of Upper Secondary Education (Certificat d'enseignement secondaire supérieur – CESS): the European baccalaureat issued by the High Council of European Schools; the international baccalaureate issued by the International Baccalaureat Office, Geneva.

However, neither certificate automatically gives exemption from the [French Language Proficiency](#) exam;

- or a proficiency diploma giving access to higher education (diplôme d'aptitude à accéder à l'enseignement supérieur – DAES) conferred by the French Community examination board.

Exam of knowledge of the French language

Anyone not demonstrating sufficient [French language proficiency](#) will not be admitted to the first-year undergraduate examinations.

Special Conditions

- 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 studies is always subject to passing the special entrance examination. The contents of the programme and the form of the examination may be obtained from the Secretariat of this faculty.

- 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).

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

CHIM1BA - Information

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.

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

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

Erreur de transformation xhtml vers fo pour 'programme_detaillé' erreur=org.xml.sax.SAXParseException; lineNumber: 274; columnNumber: 13; Des guillemets ouvrants sont attendus pour l'attribut "{1}" associé à un type d'élément "class".

CHIM1BA - 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 du jury de 1ère année : **André Lejeune**

Secrétaire du jury de 1ère année : **à désigner**

Président des jurys de 2ème et de 3ème année : **Michel Devillers**

Secrétaire des jurys de 2ème et de 3ème année : **Benjamin Elias**

Usefull Contacts

CHIM1BA - Detailed programme

Programme structure

Erreur de transformation xhtml vers fo pour 'structure' erreur=org.xml.sax.SAXParseException; lineNumber: 275; columnNumber: 1337; Des guillemets ouvrants sont attendus pour l'attribut "{1}" associé à un type d'élément "class".

Programme by subject

Year

| | | |
|---|---|---|
| 1 | 2 | 3 |
|---|---|---|

o Majeure (150 credits)

o biochimie (9 credits)

| | | | | | | | | |
|----------|--------------------------|------------------------|---------|-----------|----|--|---|---|
| LCHM1271 | Elements of biochemistry | Patrice Soumillion | 30h+24h | 4 Credits | 1q | | x | |
| LCHM1371 | Metabolic Biochemistry | Yves-Jacques Schneider | 30h+30h | 5 Credits | 2q | | | x |

o Chimie générale (19 credits)

| | | | | | | | | |
|----------|-------------------------|--|---------|------------|----|---|---|---|
| LCHM1111 | General chemistry 1 | Michel Devillers (coord.), Bernard Tinant | 60h+60h | 10 Credits | 1q | x | | |
| LCHM1211 | General Chemistry 2 | Michel Devillers (coord.), Bernard Tinant | 30h+54h | 6 Credits | 2q | | x | |
| LCHM1311 | Environmental chemistry | Shaun Carl | 30h | 3 Credits | 2q | | | x |

o Chimie inorganique et analytique (17 credits)

| | | | | | | | | |
|----------|--|---|-------------|-----------|----|--|---|---|
| LCHM1231 | Elements of inorganic and analytical chemistry | Michel Devillers | 30h+50h | 6 Credits | 2q | | x | |
| LCHM1331 | Inorganic chemistry I | Sophie Hermans (compensates Michel Devillers) | 37.5h +7.5h | 4 Credits | 1q | | | x |
| LCHM1321 | Chimie analytique 1 | Christine Dupont, Yann Garcia (coord.) | 40h | 4 Credits | 1q | | | x |
| LCHM1322 | Exercices in analytical chemistry | Christine Dupont, Yann Garcia (coord.) | 0h+66h | 3 Credits | 1q | | | x |

o Chimie organique (22 credits)

| | | | | | | | | |
|----------|----------------------------------|---|---------|------------|----|---|---|---|
| LCHM1141 | Organic chemistry 1 | Istvan Marko | 30h+30h | 5 Credits | 2q | x | | |
| LCHM1241 | Organic chemistry 2 | Istvan Marko, Olivier Riant | 60h+70h | 10 Credits | 1q | | x | |
| LCHM1341 | Organic chemistry III | Istvan Marko, Olivier Riant | 30h+15h | 4 Credits | 2q | | | x |
| LCHM1342 | Exercices in organic chemistry I | Jean-François Gohy, Olivier Riant (coord.) | 0h+65h | 3 Credits | 1q | | | x |

o Chimie physique (14 credits)

| | | | | | | | | |
|----------|--|---------------------------------|------------|-----------|------|--|---|---|
| LCHM1252 | Elements of physical molecular chemistry | Daniel Peeters | 45h +22.5h | 6 Credits | 2q | | x | |
| LCHM1351 | Physical chemistry and physico-chemical calculations | Tom Leyssens, Daniel Peeters | 45h+19h | 5 Credits | 1+2q | | | x |
| LCHM1352 | Physical methods of chemistry | Tom Leyssens | 0h+76h | 3 Credits | 2q | | | x |

o Chimie des polymères (3 credits)

| | | | | | | | | | |
|------------|-----------------------------------|--------------------|-------|-----------|----|--|--|--|---|
| ○ LCHM1361 | Introduction to polymer chemistry | Jean-François Gohy | 22.5h | 3 Credits | 2q | | | | x |
|------------|-----------------------------------|--------------------|-------|-----------|----|--|--|--|---|

o Cristallographie et spectroscopie moléculaire (8 credits)

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

o Mathématiques (14 credits)

| | | | | | | | | | |
|-------------|---|---|---------------|-----------|----|---|--|--|---|
| ○ LMAT1111F | General Mathematics | Pedro Dos Santos Santana Forte Vaz, Emmanuel Hanert, Augusto Ponce | 45h +37.5h | 7 Credits | 1q | x | | | |
| ○ LMAT1111G | General Mathematics | Marino Gran, Jean Van Schaftingen | 30h +22.5h | 4 Credits | 2q | x | | | |
| ○ LCHM1381 | Quantitative treatment of chemical data | Tom Leyssens | 22.5h | 3 Credits | 1q | | | | x |

o Biologie (11 credits)

| | | | | | | | | | |
|-------------|--|--------------------------------------|---------------|-----------|----|---|--|--|--|
| ○ LBIO1111A | Cell biology and introduction to prokaryotes, protists and fungi | André Lejeune | 37.5h +18h | 5 Credits | 1q | x | | | |
| ○ LBIO1111D | B) Plant biology; C) Animal biology | André Lejeune, Jean-François Rees | 52.5h +27h | 6 Credits | 2q | x | | | |

o Physique (12 credits)

| | | | | | | | | | |
|-------------|--|---|---------------|-----------|----|---|--|--|--|
| ○ LPHY1113D | Physique générale 1 (1er quadrimestre) | Eric Deleersnijder, Thierry Fichetef | 30h +41.5h | 6 Credits | 1q | x | | | |
| ○ LPHY1113E | Physique générale 1 (2e quadrimestre) | Thierry Fichetef, Jim Plumet | 45h +33.5h | 6 Credits | 2q | x | | | |

o Sciences de la terre (6 credits)

| | | | | | | | | | |
|------------|--------------------------------|--|---------|-----------|----|---|--|--|--|
| ○ LBIR1130 | Introduction to Earth sciences | Pierre Delmelle, Philippe Sonnet (coord.) | 45h+30h | 6 Credits | 2q | x | | | |
|------------|--------------------------------|--|---------|-----------|----|---|--|--|--|

o Anglais (8 credits)

| | | | | | | | | | |
|------------|--|--|-----|-----------|----|---|--|---|---|
| ○ LANG1861 | English: reading and listening comprehension of scientific texts | Ahmed Adriouche, Fanny Desterbecq, Charlotte Peters (coord.), Annick Sonck | 10h | 2 Credits | 2q | x | | | |
| ○ LANG1862 | English: reading and listening comprehension of scientific texts | Ahmed Adriouche (coord.), Isabelle Druant, Katherine Opello, Annick Sonck | 30h | 3 Credits | 1q | | | x | |
| ○ LANG1863 | English for Political Science (Upper-Intermediate level) | Ahmed Adriouche (coord.), Fanny Desterbecq (coord.), Marielle Henriet (coord.), Susan Jackman, Sabrina Knorr (coord.), Nevin Serbest, Françoise Stas (coord.) | 30h | 3 Credits | | | | | x |

o Cours au choix

L'étudiant choisit au moins 3 crédits parmi

| | | | | | | | | | |
|-----------|---|---|---------|-----------|----|---|--|--|--|
| ⌘ LSC1181 | Computer tools and documentation research | Daniel Peeters (coord.), Marie-Anne Van Hove | 15h+30h | 3 Credits | 2q | x | | | |
|-----------|---|---|---------|-----------|----|---|--|--|--|

| | | | | | | | Year | | |
|------------|-------------------|---|---------|-----------|----|---|------|---|---|
| | | | | | | | 1 | 2 | 3 |
| ⌘ LGEO1111 | General geography | Marie-Laurence De Keersmaecker, Bas van Wesemael | 30h+30h | 4 Credits | 2q | x | | | |

o Sciences humaines (4 credits)

| | | | | | | | | |
|-----------|------------|---------------|-----|-----------|----|--|--|---|
| o LSC1120 | Philosophy | Bernard Feltz | 30h | 2 Credits | 1q | | | x |
|-----------|------------|---------------|-----|-----------|----|--|--|---|

o Sciences religieuses (2 credits)

L'étudiant choisit 2 crédits parmi les cours suivants

| | | | | | | | | |
|-------------|--|--------------------|-----|-----------|----|--|---|--|
| ⌘ LTECO2100 | Questions of religious sciences: biblical readings | Hans Ausloos | 15h | 2 Credits | 1q | | x | |
| ⌘ LTECO2200 | Questions of religious sciences: reflections about christian faith | Dominique Martens | 15h | 2 Credits | 2q | | x | |
| ⌘ LTECO2300 | Questions of religious sciences: questions about ethics | Philippe Cochinaux | 15h | 2 Credits | 1q | | x | |

o Option (30 credits)

Tout en veillant au nombre de crédits requis, l'étudiant complète sa formation avec une mineure qu'il choisit dans la liste suivante : - Mineure d'approfondissement en sciences chimiques - Mineure en biologie - Mineure en criminologie - Mineure en économie (ouverture) - Mineure en développement et environnement

⌘ Mineure au choix (30 credits)

L'étudiant choisit ses cours en fonction des contraintes liées à la mineure et en concertation avec son conseiller aux études.

| | | | | | | | | |
|---|-------------------|----|--|---------|--|--|---|---|
| o | Cours de 2e année | N. | | Credits | | | x | |
| o | Cours de 3e année | N. | | Credits | | | | x |

Programme year by year

CHIM1BA - FIRST YEAR

○ Mandatory

△ Courses not taught during 2013-2014

⊕ Periodic courses taught during 2013-2014

⊗ Optional

⊖ Periodic courses not taught during 2013-2014

‡ Two years course

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

○ Majeure

○ Chimie générale

| | | | | | |
|------------|-------------------------------------|--|---------|------------|----|
| ○ LCHM1111 | General chemistry 1 | Michel Devillers (coord.), Bernard Tinant | 60h+60h | 10 Credits | 1q |
|------------|-------------------------------------|--|---------|------------|----|

○ Chimie organique

| | | | | | |
|------------|-------------------------------------|--------------|---------|-----------|----|
| ○ LCHM1141 | Organic chemistry 1 | Istvan Marko | 30h+30h | 5 Credits | 2q |
|------------|-------------------------------------|--------------|---------|-----------|----|

○ Mathématiques

| | | | | | |
|-------------|-------------------------------------|--|---------------|-----------|----|
| ○ LMAT1111F | General Mathematics | Pedro Dos Santos Santana Forte Vaz, Emmanuel Hanert, Augusto Ponce | 45h +37.5h | 7 Credits | 1q |
| ○ LMAT1111G | General Mathematics | Marino Gran, Jean Van Schaftingen | 30h +22.5h | 4 Credits | 2q |

○ Biologie

| | | | | | |
|-------------|--|--------------------------------------|---------------|-----------|----|
| ○ LBIO1111A | Cell biology and introduction to prokaryotes, protists and fungi | André Lejeune | 37.5h +18h | 5 Credits | 1q |
| ○ LBIO1111D | B) Plant biology; C) Animal biology | André Lejeune, Jean-François Rees | 52.5h +27h | 6 Credits | 2q |

○ Physique

| | | | | | |
|-------------|--|---------------------------------------|---------------|-----------|----|
| ○ LPHY1113D | Physique générale 1 (1er quadrimestre) | Eric Deleersnijder, Thierry Fichet | 30h +41.5h | 6 Credits | 1q |
| ○ LPHY1113E | Physique générale 1 (2e quadrimestre) | Thierry Fichet, Jim Plumet | 45h +33.5h | 6 Credits | 2q |

○ Sciences de la terre

| | | | | | |
|------------|--|--|---------|-----------|----|
| ○ LBIR1130 | Introduction to Earth sciences | Pierre Delmelle, Philippe Sonnet (coord.) | 45h+30h | 6 Credits | 2q |
|------------|--|--|---------|-----------|----|

○ Anglais

| | | | | | |
|------------|--|--|-----|-----------|----|
| ○ LANG1861 | English: reading and listening comprehension of scientific texts | Ahmed Adriouèche, Fanny Desterbecq, Charlotte Peters (coord.), Annick Sonck | 10h | 2 Credits | 2q |
|------------|--|--|-----|-----------|----|

○ Cours au choix

L'étudiant choisit au moins 3 crédits parmi

| | | | | | |
|------------|---|---|---------|-----------|----|
| ⊗ LSC1181 | Computer tools and documentation research | Daniel Peeters (coord.), Marie-Anne Van Hove | 15h+30h | 3 Credits | 2q |
| ⊗ LGEO1111 | General geography | Marie-Laurence De Keersmaecker, Bas van Wesemael | 30h+30h | 4 Credits | 2q |

CHIM1BA - SECOND YEAR

● Mandatory

△ Courses not taught during 2013-2014

⊕ Periodic courses taught during 2013-2014

⊗ Optional

⊖ Periodic courses not taught during 2013-2014

‡ Two years course

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 |
|------------|--|--------------------|---------|-----------|----|

o Chimie générale

| | | | | | |
|------------|-------------------------------------|--|---------|-----------|----|
| ● LCHM1211 | General Chemistry 2 | Michel Devillers (coord.), Bernard Tinant | 30h+54h | 6 Credits | 2q |
|------------|-------------------------------------|--|---------|-----------|----|

o Chimie inorganique et analytique

| | | | | | |
|------------|--|------------------|---------|-----------|----|
| ● LCHM1231 | Elements of inorganic and analytical chemistry | Michel Devillers | 30h+50h | 6 Credits | 2q |
|------------|--|------------------|---------|-----------|----|

o Chimie organique

| | | | | | |
|------------|-------------------------------------|--------------------------------|---------|------------|----|
| ● LCHM1241 | Organic chemistry 2 | Istvan Marko, Olivier Riant | 60h+70h | 10 Credits | 1q |
|------------|-------------------------------------|--------------------------------|---------|------------|----|

o Chimie physique

| | | | | | |
|------------|--|----------------|---------------|-----------|----|
| ● LCHM1252 | Elements of physical molecular chemistry | Daniel Peeters | 45h +22.5h | 6 Credits | 2q |
|------------|--|----------------|---------------|-----------|----|

o Cristallographie et spectroscopie moléculaire

| | | | | | |
|-------------|--|--------------------|---------|-----------|----|
| ● LCHM1251B | Eléments de cristallographie et de spectroscopie moléculaire | Yaroslav Filinchuk | 30h+10h | 4 Credits | 1q |
| ● LCHM1251C | Eléments de cristallographie et spectroscopie moléculaire | Sophie Hermans | 30h+20h | 4 Credits | 2q |

o Anglais

| | | | | | |
|------------|--|--|-----|-----------|----|
| ● LANG1862 | English: reading and listening comprehension of scientific texts | Ahmed Adriouche (coord.), Isabelle Druant, Katherine Opello, Annick Sonck | 30h | 3 Credits | 1q |
|------------|--|--|-----|-----------|----|

o Sciences humaines**o Sciences religieuses**

L'étudiant choisit 2 crédits parmi les cours suivants

| | | | | | |
|-------------|--|--------------------|-----|-----------|----|
| ⊗ LTECO2100 | Questions of religious sciences: biblical readings | Hans Ausloos | 15h | 2 Credits | 1q |
| ⊗ LTECO2200 | Questions of religious sciences: reflections about christian faith | Dominique Martens | 15h | 2 Credits | 2q |
| ⊗ LTECO2300 | Questions of religious sciences: questions about ethics | Philippe Cochinaux | 15h | 2 Credits | 1q |

o Option

Tout en veillant au nombre de crédits requis, l'étudiant complète sa formation avec une mineure qu'il choisit dans la liste suivante : - Mineure d'approfondissement en sciences chimiques - Mineure en biologie - Mineure en criminologie - Mineure en économie (ouverture) - Mineure en développement et environnement

⊗ Mineure au choix

L'étudiant choisit ses cours en fonction des contraintes liées à la mineure et en concertation avec son conseiller aux études.

| | | | | | |
|---|-----------------------------------|----|--|---------|--|
| ○ | Cours de 2e année | N. | | Credits | |
|---|-----------------------------------|----|--|---------|--|

CHIM1BA - THIRD YEAR

○ Mandatory

△ Courses not taught during 2013-2014

⊕ Periodic courses taught during 2013-2014

⊗ Optional

⊖ Periodic courses not taught during 2013-2014

‡ Two years course

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

o Majeure**o biochimie**

| | | | | | |
|------------|--|--|---------|-----------|----|
| ○ LCHM1371 | Metabolic Biochemistry | Yves-Jacques Schneider | 30h+30h | 5 Credits | 2q |
|------------|--|--|---------|-----------|----|

o Chimie générale

| | | | | | |
|------------|---|----------------------------|-----|-----------|----|
| ○ LCHM1311 | Environmental chemistry | Shaun Carl | 30h | 3 Credits | 2q |
|------------|---|----------------------------|-----|-----------|----|

o Chimie inorganique et analytique

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

o Chimie organique

| | | | | | |
|------------|--|---|---------|-----------|----|
| ○ LCHM1341 | Organic chemistry III | Istvan Marko, Olivier Riant | 30h+15h | 4 Credits | 2q |
| ○ LCHM1342 | Exercices in organic chemistry I | Jean-François Gohy, Olivier Riant (coord.) | 0h+65h | 3 Credits | 1q |

o Chimie physique

| | | | | | |
|------------|--|---|---------|-----------|------|
| ○ LCHM1351 | Physical chemistry and physico-chemical calculations | Tom Leyssens, Daniel Peeters | 45h+19h | 5 Credits | 1+2q |
| ○ LCHM1352 | Physical methods of chemistry | Tom Leyssens | 0h+76h | 3 Credits | 2q |

o Chimie des polymères

| | | | | | |
|------------|---|------------------------------------|-------|-----------|----|
| ○ LCHM1361 | Introduction to polymer chemistry | Jean-François Gohy | 22.5h | 3 Credits | 2q |
|------------|---|------------------------------------|-------|-----------|----|

o Mathématiques

| | | | | | |
|------------|---|------------------------------|-------|-----------|----|
| ○ LCHM1381 | Quantitative treatment of chemical data | Tom Leyssens | 22.5h | 3 Credits | 1q |
|------------|---|------------------------------|-------|-----------|----|

o Anglais

| | | | | | |
|------------|--|---|-----|-----------|--|
| ○ LANG1863 | English for Political Science (Upper-Intermediate level) | Ahmed Adriouèche (coord.), Fanny Desterbecq (coord.), Marielle Henriët (coord.), Susan Jackman, Sabrina Knorr (coord.), Nevin Serbest, Françoise Stas (coord.) | 30h | 3 Credits | |
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o Sciences humaines

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|-----------|----------------------------|-------------------------------|-----|-----------|----|
| ○ LSC1120 | Philosophy | Bernard Feltz | 30h | 2 Credits | 1q |
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o Option

Tout en veillant au nombre de crédits requis, l'étudiant complète sa formation avec une mineure qu'il choisit dans la liste suivante : - Mineure d'approfondissement en sciences chimiques - Mineure en biologie - Mineure en criminologie - Mineure en économie (ouverture) - Mineure en développement et environnement

⌘ Mineure au choix

L'étudiant choisit ses cours en fonction des contraintes liées à la mineure et en concertation avec son conseiller aux études.

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| <input type="radio"/> | Cours de 3e année | N. | | Credits | |
|-----------------------|-------------------|----|--|---------|--|

List of available minors

- > **Additional module in Chemistry** [<https://www.uclouvain.be/en-prog-2013-app-lchim100p>]
- > **Minor in Biology** [<https://www.uclouvain.be/en-prog-2013-min-lbiol100i>]
- > **Minor in Criminology** [<https://www.uclouvain.be/en-prog-2013-min-lcrim100i>]
- > **Minor in Development and Environment** [<https://www.uclouvain.be/en-prog-2013-min-ldenv100i>]
- > **Minor in Economics (open)** [<https://www.uclouvain.be/en-prog-2013-min-loeco100i>]

