



UCLouvain
Study
programme
2018 - 2019

Minor in Scientific Culture

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Introduction

Introduction

Teaching profile

Learning outcomes

The aim of the minor is to give students a multidisciplinary and interdisciplinary idea of the way exact sciences are established and develop, and what contribution they can make to economic and social progress.

Depending on the student's own plans, s/he can choose to tackle one or both of these goals. This choice will then have an impact on what seminar/s s/he chooses.

If the student is interested in examining the interdisciplinarity of the sciences, s/he should take classes in at least two disciplines.

Detailed programme

PROGRAMME BY SUBJECT

- Mandatory
 △ Courses not taught during 2018-2019
 ⊕ Periodic courses taught during 2018-2019
 ✖ Optional
 ⊖ Periodic courses not taught during 2018-2019
 ■ Activity with requisites

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

Year

2 3

✖ Biologie

✖ Niveau 1 (cours abordables sans pré-requis)

✖ LPSP1005	General biology, including elements of human genetics	André Moens	30h	4 Credits	1q	x	x
✖ LBIO1110	Life : diversity and evolution	Patrick Dumont Thierry Hance Caroline Nieberding (coord.)	30h+10h	4 Credits	1q	x	x
✖ LBIO1111	Cell and molecular biology	André Lejeune	30h+20h	5 Credits	1q	x	x
✖ LBIO1112	Organism biology : plants and animals	André Lejeune Jean-François Rees	30h+20h	5 Credits	2q	x	x
✖ LBIO1114	Introduction to biology	Patrick Dumont Caroline Nieberding	30h+7.5h	3 Credits	2q	x	x
✖ LBIO1116	Scientific approach in biology	Muriel Quinet Jean-François Rees (coord.) Nicolas Schtickzelle Hans Van Dyck Renate Wesselingh	30h+30h	6 Credits	2q	x	x
✖ LBIO1117	Ecology	Hans Van Dyck Renate Wesselingh (coord.)	30h+10h	4 Credits	2q	x	x

✖ Niveau 2 (cours nécessitant des pré-requis de niveau 1)

NB : l'étudiant ne peut choisir qu'un seul cours LBIR1352.

✖ LBIR1250	Biochemistry I	Michel Ghislain Yvan Larondelle (coord.)	30h+15h	4 Credits	1q	x	x
✖ LBIR1352	General genetics	Philippe Baret Jacques Mahillon	45h+15h	5 Credits	2q	x	x
✖ LBIR1352A	Génétique générale - partim A	Philippe Baret Jacques Mahillon	30h+7.5h	3 Credits	2q	x	x
✖ LBIR1352B	Génétique générale: partim B	Philippe Baret Jacques Mahillon	30h+15h	4 Credits	2q	x	x
✖ LBIO1221	Introduction to genetics	Charles Hachez André Lejeune	25h+15h	3 Credits	2q	x	x
✖ LBIO1231B	Biologie des invertébrés	Bernard Knoop Jean-François Rees	20h+70h	8 Credits	1q	x	x
✖ LBIO1231C	Biologie des vertébrés et système nerveux	Françoise Gofflot Bernard Knoop	45h+15h	4 Credits	1 + 2q	x	x
✖ LBIO1241A	Complements of plant biology	Stanley Lutts	22.5h +15h	3 Credits	1q	x	x
✖ LBIO1241B	Complements of plant biology	André Lejeune Stanley Lutts Muriel Quinet	32.5h +15h	4 Credits	2q	x	x
✖ LBIO1251	Ecology	Hans Van Dyck Renate Wesselingh	60h+15h	5 Credits	2q	x	x

Year

2 3

⌘ Niveau 3 (cours nécessitant des pré-requis de niveau 2)

⌘ LBIR1350	General Microbiology	Jacques Mahillon	37.5h +15h	4 Credits	2q	x	x
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⌘ Chimie

⌘ Niveau 1 (cours abordables sans pré-requis)

NB : l'étudiant ne peut choisir qu'un seul cours LCHM1111

⌘ LCHM1112	General Chemistry	Yaroslav Filinchuk	30h +22.5h	5 Credits	1q	x	x
⌘ LCHM1111	General chemistry	Michel Devillers	45h +67.5h	11 Credits	1q	x	x
⌘ LCHM1111A	General chemistry	Michel Devillers	45h+30h	6 Credits	1q	x	x
⌘ LCHM1111B	General chemistry	Michel Devillers	45h+45h	8 Credits	1q	x	x

⌘ Niveau 2 (cours nécessitant des pré-requis de niveau1)

NB : l'étudiant ne peut choisir qu'un seul cours LCHM1141.

⌘ LCHM1141	Organic chemistry	Benjamin Elias (coord.) Charles-André Fustin	30h+40h	7 Credits	2q	x	x
⌘ LCHM1141A	Organic chemistry	Benjamin Elias Charles-André Fustin	30h+20h	5 Credits	2q	x	x
⌘ LCHM1243	Introduction to organic chemistry and to biochemistry	Pierre Morsomme	22.5h +22.5h	5 Credits	2q	x	x

⌘ Mathématique, physique et ingénierie

⌘ Niveau 1 (cours abordables sans pré-requis)

⌘ LECGE1112	Mathematics in economy and management	Pascal Lambrechts Pascal Lambrechts (compensates Mathieu Van Vyve) Mathieu Van Vyve	45h+30h	6 Credits	1q	x	x
⌘ LINGE1122	Physics 1	Giacomo Bruno	40h+20h	5 Credits	2q	x	x
⌘ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	30h+20h	4 Credits	1q	x	x
⌘ LPHY1101	Physics 1	Thierry Fichet	30h+40h	6 Credits	1q	x	x
⌘ LPHYS1000	Introduction to physics	Jean-Marc Gérard	30h+15h	4 Credits	2q	x	x

⌘ Niveau 2 (cours nécessitant des pré-requis de niveau1)

NB : 1) l'étudiant peut choisir LPHY1102 ou LPHY1103 2) l'étudiant qui choisit LPHY1102 est tenu de suivre (d'avoir suivi) LMAT1102.

⌘ LELEC1930	Intoduction to telecommunication	Jérôme Louveaux	30h+15h	4 Credits	2q	x	x
⌘ LINGE1317	Research and technological development: energy, electronics and telecommunications	Hervé Jeanmart Sébastien Lugan (compensates Benoît Macq) Benoît Macq	32.5h +7.5h	4 Credits	1q	x	x
⌘ LINGE1327	Research and technological development: mechanical, chemical and materials	Paul Fisette Bernard Nysten	32.5h +7.5h	4 Credits	2q	x	x
⌘ LMAT1102	Mathematics 2	Augusto Ponce	30h+30h	4 Credits	2q	x	x
⌘ LPHY1102	Physics 2	Vincent Lemaitre	54h+36h	7 Credits	2q	x	x
⌘ LPHY1103	Additional physics	Thierry Delbar (compensates Fabio Maltoni) Fabio Maltoni	45h+5h	4 Credits	2q	x	x

						Year	
						2	3
⌘ LPHYS1214	Astronomy and geophysics	Véronique Dehant Patricia Lampens	22.5h +15h	5 Credits	2q	x	x
⌘ LPHYS1241	Quantum Physics 1	Marco Drewes	30h+30h	5 Credits	2q	x	x

⌘ Sciences de la terre

⌘ Niveau 1 (cours abordables sans pré-requis)

⌘ LBIR1130	Introduction to Earth sciences	Pierre Delmelle (coord.) Sophie Opfergelt	30h+30h	6 Credits	2q	x	x
⌘ LBIR1230	Introduction to biosphere engineering	Philippe Baret (coord.) Pierre Defourny Pierre Delmelle Bruno Delvaux	60h	5 Credits	2q	x	x
⌘ LGEO1111	Earth and society : perspectives from geography	Marie-Laurence De Keersmaecker Bas van Wesemael	30h+15h	4 Credits	2q	x	x
⌘ LGEO1221	Elements of human geography	Marie-Laurence De Keersmaecker	30h+30h	5 Credits	1q	x	x
⌘ LGEO1241	Cartography and spatial data analysis	Patrick Meyfroidt (compensates Isabelle Thomas) Isabelle Thomas	30h+30h	5 Credits	2q	x	x

⌘ Niveau 2 (cours nécessitant des pré-requis de niveau1)

⌘ LBIR1328	Climatology and hydrology applied to agronomy and the environment	Charles Bielders Hugues Goosse Marnik Vanclooster (coord.)	45h +22.5h	6 Credits	1q	x	x
⌘ LBIR1334	Introduction to forestry sciences	Quentin Ponette (coord.) Caroline Vincke	22.5h +15h	3 Credits	2q	x	x
⌘ LBIR1336	Sciences du sol et excursions intégrées	Bruno Delvaux (coord.) Richard Lambert Caroline Vincke	30h +37.5h	5 Credits	2q	x	x
⌘ LGEO1231	Elements of physical geography	Bas van Wesemael	30h+30h	5 Credits	1q	x	x
⌘ LGEO1251	Geology	Veerle Vanacker	30h+60h	6 Credits	2q	x	x

⌘ Séminaires

⌘ LSC1300	Séminaire de culture scientifique			5 Credits		x	x
⌘ LSC1350	Séminaire d'application des sciences			5 Credits		x	x

COURSE PREREQUISITES

A document entitled (nb: not available for this programme licusc100i) 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?"*

Information

Liste des bacheliers proposant cette mineure

- > Bachelor in Sociology and Anthropology [en-prog-2018-soca1ba]
- > Bachelor in Pharmacy [en-prog-2018-farm1ba]
- > Bachelor in religious studies [en-prog-2018-reli1ba]
- > Bachelor in Modern Languages and Literatures: German, Dutch and English [en-prog-2018-germ1ba]
- > Bachelor in Mathematics [en-prog-2018-math1ba]
- > Bachelor in Law [en-prog-2018-droi1ba]
- > Bachelor in Physics [en-prog-2018-phys1ba]
- > Bachelor in Human and Social Sciences [en-prog-2018-huso1ba]
- > Bachelor in History of Art and Archaeology : General [en-prog-2018-arke1ba]
- > Bachelor in Ancient Languages and Literatures : Classics [en-prog-2018-clas1ba]
- > Bachelor in Ancient Languages and Literatures: Oriental Studies [en-prog-2018-hori1ba]
- > Bachelor in Philosophy [en-prog-2018-filo1ba]
- > Bachelor in Economics and Management [en-prog-2018-ecge1ba]
- > Bachelor in Motor skills : General [en-prog-2018-edph1ba]
- > Bachelor in Political Sciences: General [en-prog-2018-spol1ba]
- > Bachelor in History [en-prog-2018-hist1ba]
- > Bachelor in Engineering [en-prog-2018-fsa1ba]
- > Bachelor in Information and Communication [en-prog-2018-comu1ba]
- > Bachelor in Computer Science [en-prog-2018-sinf1ba]
- > Bachelor in French and Romance Languages and Literatures : General [en-prog-2018-rom1ba]
- > Bachelor in Ancient and Modern Languages and Literatures [en-prog-2018-lafr1ba]
- > Bachelor in Biomedicine [en-prog-2018-sbim1ba]
- > Bachelor in Chemistry [en-prog-2018-chim1ba]
- > Bachelor in Geography : General [en-prog-2018-geog1ba]
- > Bachelor in Modern Languages and Literatures : General [en-prog-2018-roge1ba]

Admission

Specific Admission Requirements

The minor is accessible, with no entry requirements, to all baccalaureate students, regardless of their option. It is taken in the second and third year of the baccalaureate. The minor is also open to adults.

Evaluation

*The evaluation methods comply with the **regulations concerning studies and exams** (<https://uclouvain.be/fr/decouvrir/rgee.html>). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".*

Possible trainings at the end of the programme

The minor does not lead on to any master's in particular. It will make it easier for students to understand problems in exact sciences dealt with on the master's course, even if students only have only received limited training in these subject areas when studying for their baccalaureate.

Contacts

Attention, you are currently reading an archived page: below contact informations were for program study 2018-2019 only. To get current contact informations please got to [current program study site](#).

Curriculum Management

Faculty

Structure entity

Denomination

Sector

SST/SC

Faculty of Science ([SC](https://uclouvain.be/repertoires/entites/sc)) (<https://uclouvain.be/repertoires/entites/sc>)

Sciences and Technology ([SST](https://uclouvain.be/repertoires/entites/sst)) (<https://uclouvain.be/repertoires/entites/sst>)

Acronym

SC

Postal address

Place des Sciences 2 - bte L6.06.01

1348 Louvain-la-Neuve

Tel: [+32 \(0\) 10 47 33 24](tel:+32210473324) - Fax: [+32 \(0\) 10 47 28 37](tel:+32210472837)

<http://www.uclouvain.be/sc>

Web site

Mandate(s)

- Doyen : Enrico Vitale
- Directeur administratif de faculté : Chantal Poncin

Commission(s) of programme

- Ecole de biologie ([BIOL](https://uclouvain.be/fr/repertoires/entites/BIOL)) (<https://uclouvain.be/fr/repertoires/entites/BIOL>)
- Commission de l'agrégation et de la formation continue en Sciences ([CAFC](https://uclouvain.be/fr/repertoires/entites/CAFC)) (<https://uclouvain.be/fr/repertoires/entites/CAFC>)
- Ecole de chimie ([CHIM](https://uclouvain.be/fr/repertoires/entites/CHIM)) (<https://uclouvain.be/fr/repertoires/entites/CHIM>)
- Ecole de géographie ([GEOG](https://uclouvain.be/fr/repertoires/entites/GEOG)) (<https://uclouvain.be/fr/repertoires/entites/GEOG>)
- Louvain School of Statistics, Biostatistics and Actuarial Sciences ([LSBA](https://uclouvain.be/fr/repertoires/entites/LSBA)) (<https://uclouvain.be/fr/repertoires/entites/LSBA>)
- Ecole de mathématique ([MATH](https://uclouvain.be/fr/repertoires/entites/MATH)) (<https://uclouvain.be/fr/repertoires/entites/MATH>)
- Ecole de physique ([PHYS](https://uclouvain.be/fr/repertoires/entites/PHYS)) (<https://uclouvain.be/fr/repertoires/entites/PHYS>)
- Ecole de médecine vétérinaire ([VETE](https://uclouvain.be/fr/repertoires/entites/VETE)) (<https://uclouvain.be/fr/repertoires/entites/VETE>)

Academic supervisor: Enrico Vitale

Useful Contact(s)

- René Rezsöházy

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