

**Table of contents**

Introduction .....	2
Teaching profile .....	3
- Learning outcomes .....	3
- Detailed programme .....	3
- Programme by subject .....	3
- Course prerequisites .....	5
- The programme's courses and learning outcomes .....	5
Information .....	6
- Liste des bacheliers proposant cette mineure .....	6
- Admission .....	6
- Possible trainings at the end of the programme .....	6
- Contacts .....	6
- Infos .....	7

## 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 2016-2017

⊕ Periodic courses taught during 2016-2017

⊗ Optional

⊖ Periodic courses not taught during 2016-2017

■ 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	Andre.Moens	30h	4 Credits	1q	x	x
⊗ LBIO1114	Introduction to biology	Patrick.Dumont Caroline.Nieberding	30h+7.5h	3 Credits	2q	x	x
⊗ LBIO1181	Project	Andre.Lejeune	0h+45h	3 Credits	1 + 2q	x	x
⊗ LBIO1111	Cell biology and introduction to prokaryotes, protists and fungi	Andre.Lejeune	37.5h +18h	5 Credits	1q	x	x

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

⊗ LBIR1220	Biochemistry I	Michel.Ghislain Yvan.Larondelle (coord.)	30h+15h	4 Credits	2q	x	x
⊗ LBIO1112A	Biologie animale		30h+10h	3 Credits	2q	x	x
⊗ LBIO1112B	Biologie végétale	Andre.Lejeune	22.5h +17h	3 Credits	2q	x	x

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

⊗ LBIO1251	Ecology	Hans.Vandyck Hans.Vandyck (compensates Renate Wesselingh) Renate.Wesselingh	60h+15h	5 Credits	2q	x	x
⊗ LBIO1221	Introduction to genetics	Andre.Lejeune	25h+15h	3 Credits	2q	x	x
⊗ LBIO1231B	Biologie animale - biologie des invertébrés	Bernard.Knoops Anne-Catherine.Mailleux Caroline.Nieberding Jf.Rees	30h+60h	8 Credits	1q	x	x
⊗ LBIO1231C	Biologie animale - biologie comparée des vertébrés	Francoise.Gofflot Bernard.Knoops	45h+15h	4 Credits	2q	x	x
⊗ LBIO1241A	Complements of plant biology	Stanley.Lutts	22.5h +15h	3 Credits	1q	x	x
⊗ LBIO1241B	Complements of plant biology	Andre.Lejeune Stanley.Lutts	32.5h +15h	4 Credits	2q	x	x
⊗ LBIR1323	Microbiology	Jacques.Mahillon	45h+15h	4 Credits	2q	x	x

							Year	
							2	3
LBIR1322A	Généétique générale	Philippe.Baret	30h+15h	3.5 Credits	2q	x	x	

## Chimie

### Niveau 1 (cours abordables sans pré-requis)

LCHM1112	General Chemistry	Yaroslav.Filinchuk	22.5h +22.5h	3 Credits	1q	x	x
LCHM1111	General chemistry 1	Michel.Devillers	60h+60h	10 Credits	1q	x	x

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

LCHM1141	Organic chemistry 1	Istvan.Marko	30h+30h	5 Credits	2q	x	x
LCHM1243	Introduction to organic chemistry and to biochemistry	Agnes.Gnagnarella Pierre.Morsomme	22.5h +22.5h	5 Credits	2q	x	x

## Mathématique, physique et ingénierie

### Niveau 1 (cours abordables sans pré-requis)

LINGE1122	Physics 1	Giacomo.Bruno	40h+20h	5 Credits	2q	x	x
LMAFY1181	Actualities in Mathematics and Physics	Pascal.Lambrechts Bernard.Piroux Bernard.Piroux (compensates Pascal Lambrechts)	15h	2 Credits	1 + 2q	x	x
LPHYS1000	Introduction to physics	Jean-Marc.Gerard	30h+15h	5 Credits	2q	x	x
LSC2002	Elements of mathematics and physics history	Paloma.delaValleePoussin Michel.Willem	30h	4 Credits	1q	x	x
LECGE1112	Mathematics in economy and management	Pascal.Lambrechts Mathieu.Vanvyve	45h+30h	6 Credits	1q	x	x

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

LPHY1222	Quantum Physics	Fabio.Maltoni	30h+30h	5 Credits	2q	x	x
LPHY1261	Astronomy and geophysics	Veronique.Dehant (coord.) Patricia.Lampens	15h+7.5h	2 Credits	2q	x	x
LELEC1930	Intoduction to telecommunication	Jerome.Louveaux	30h+15h	4 Credits	2q	x	x
LINGE1317	Research and technological development: energy, electronics and telecommunications	Herve.Jeanmart (coord.) Benoit.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

## Sciences de la terre

### Niveau 1 (cours abordables sans pré-requis)

LBIR1130	Introduction to Earth sciences	Pierre.Delmelle (coord.) Sophie.Opfergelt	45h+30h	6 Credits	2q	x	x
LGEO1111	General geography	Marie-Laurence.Dekeersmaecker Bas.Vanwesemael	30h+30h	5 Credits	2q	x	x

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

LGEO1221	Elements of human geography	Marie-Laurence.Dekeersmaecker	30h+42h	5 Credits	1q	x	x
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						Year	
						2	3
⊗ LGEO1231	Elements of physical geography	Bas.Vanwesemael	30h+30h	5 Credits	1q	x	x
⊗ LGEO1241	Cartography	Isabelle.Thomas	30h+30h	5 Credits	2q	x	x
⊗ LGEO1251	Geology	Veerle.Vanacker	30h+60h	8 Credits	2q	x	x
⊗ LBIR1230	Introduction to biosphere engineering	Philippe.Baret (coord.) Pierre.Defourny Pierre.Delmelle Bruno.Delvaux	60h	5 Credits	2q	x	x

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

⊗ LBIR1334	Introduction to forestry sciences	Quentin.Ponette (coord.) Caroline.Vincke	30h+15h	3 Credits	2q	x	x
⊗ LBIR1336	Sciences du sol	Pierre.Delmelle (coord.) Bruno.Delvaux	30h+30h	5 Credits	2q	x	x
⊗ LBIR1338	Bioclimatologie	Thierry.Fichefet (coord.) Hugues.Goose	22.5h +7.5h	3 Credits	1q	x	x

### ⊗ Séminaires

⊗ LSC1300	Séminaire de culture scientifique	Enrico.Vitale (coord.)		5 Credits		x	x
⊗ LSC1350	Séminaire d'application des sciences	Enrico.Vitale (coord.)		5 Credits		x	x

## COURSE PREREQUISITES

A document entitled [en-prerequis-2016-min-licusc100i.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 UCL 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 UCL account.

## Information

### Liste des bacheliers proposant cette mineure

- > Bachelor in Sociology and Anthropology [en-prog-2016-soca1ba]
- > Bachelor in Pharmacy [en-prog-2016-farm1ba]
- > Bachelor in religious studies [en-prog-2016-reli1ba]
- > Bachelor in Modern Languages and Letters: German, Dutch and English [en-prog-2016-germ1ba]
- > Bachelor in Mathematics [en-prog-2016-math1ba]
- > Bachelor in Law [en-prog-2016-droi1ba]
- > Bachelor in Physics [en-prog-2016-phys1ba]
- > Bachelor in Human and Social Sciences [en-prog-2016-huso1ba]
- > Bachelor in History of Art and Archaeology : General [en-prog-2016-arke1ba]
- > Bachelor in Ancient Languages and Letters : Classics [en-prog-2016-clas1ba]
- > Bachelor in Ancient Languages and Letters: Oriental Studies [en-prog-2016-hori1ba]
- > Bachelor in Philosophy [en-prog-2016-filo1ba]
- > Bachelor in Economics and Management [en-prog-2016-ecge1ba]
- > Bachelor in Motor skills : General [en-prog-2016-edph1ba]
- > Bachelor in Political Sciences: General [en-prog-2016-spol1ba]
- > Bachelor in History [en-prog-2016-hist1ba]
- > Bachelor in Engineering [en-prog-2016-fsa1ba]
- > Bachelor in Computer Science [en-prog-2016-sinf1ba]
- > Bachelor in Information and Communication [en-prog-2016-comu1ba]
- > Bachelor in Ancient and Modern Languages and Letters [en-prog-2016-lafr1ba]
- > Bachelor in French and Romance Languages and Letters : General [en-prog-2016-rom1ba]
- > Bachelor in Biomedicine [en-prog-2016-sbim1ba]
- > Bachelor in Chemistry [en-prog-2016-chim1ba]
- > Bachelor in Geography : General [en-prog-2016-geog1ba]
- > Bachelor in Modern Languages and Letters : General [en-prog-2016-roge1ba]

### Admission

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.

### 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

### Curriculum Management

Entite de la structure SC

Sigle	<b>SC</b>
Dénomination	Faculté des sciences
Adresse	Place des Sciences, 2 bte L6.06.01 1348 Louvain-la-Neuve

Tél 010 47 33 24 - Fax 010 47 28 37

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

Secteur Secteur des sciences et technologies (SST)

Faculté Faculté des sciences (SC)

Mandats [Enrico Vitale](#)

Doyen

[Sara Mauquoy](#)

Directeur administratif de faculté

Commissions de programme Ecole de biologie (BIOL)

Commission de l'agrégation et de la formation continue en Sciences (CAFC)

Ecole de chimie (CHIM)

Ecole de géographie (GEOG)

Louvain School of Statistics, Biostatistics and Actuarial Sciences (LSBA)

Ecole de mathématique (MATH)

Ecole de physique (PHYS)

Ecole de médecine vétérinaire (VETE)

Academic Supervisor : [Enrico Vitale](#)

## Jury

## Usefull Contacts

Directrice administrative de la Faculté : [René Rezsöházy](#)

## Infos

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