

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	6
Information	7
- Liste des bacheliers proposant cette mineure	7
- Admission	7
- Evaluation	7
- Possible trainings at the end of the programme	7
- Contacts	8

Introduction

Introduction

Teaching profile

Learning outcomes

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

Detailed programme

PROGRAMME BY SUBJECT

- 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...)

Year

2 3

o Contenu:

⊗ 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	45h+15h	5 Credits	2q	x	x
⊗ LBIR1352A	Génétique générale - partim A	Philippe Baret	30h+7.5h	3 Credits	2q	x	x
⊗ LBIR1352B	Génétique générale: partim B	Philippe Baret	30h+15h	4 Credits	2q	x	x
⊗ LBIO1221	Genetics	Charles Hachez André Lejeune	20h+15h	2 Credits	2q	x	x
⊗ LBIO1230	Invertebrate biology	Jean-François Rees	10h+40h	4 Credits	1q	x	x

							Year	
							2	3
✘ LBIO1234	Animal histology	Bernard Knoops	20h+10h	2 Credits	1q		x	x
✘ LBIO1235	General cell physiology	Stanley Lutts Jean-François Rees	15h+15h	2 Credits	1q		x	x
✘ LBIO1240	Plant physiology	Xavier Draye Stanley Lutts	40h+15h	4 Credits	1q		x	x
✘ LBIO1213	Morphology and physiology of fungi	Stephan Declerck	15h+10h	2 Credits	1q		x	x
✘ LBIO1217	Ecology of individuals and populations	Thierry Hance Caroline Nieberding Hans Van Dyck Renate Wesselingh (coord.)	30h+10h	3 Credits	2q		x	x
✘ LBIO1254	Animal behavior	Françoise Gofflot Caroline Nieberding Hans Van Dyck	20h+10h	2 Credits	1q	⊙	x	x
✘ LBIO1248	Biology and society : interdisciplinary approche of current scientific questions	Myriam De Kesel Stanley Lutts Jean-François Rees	15h+15h	2 Credits	1q	⊙	x	x
✘ LBIO1317	Communities and ecosystems ecology		30h	2 Credits	1q	△	x	x
✘ LCHM1271A	Eléments de biochimie	Patrice Soumillion	30h+20h	3 Credits	1q		x	x

✘ 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 (coord.) Charles-André Fustin	30h+20h	5 Credits	2q		x	x

✘ Mathématique, physique et ingénierie

✘ Niveau 1 (cours abordables sans pré-requis)

✘ LECGE1112	Mathematics in economy and management	Pascal Lambrechts 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	Francesco Contino 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

							Year	
							2	3
⊗	LMAT1102	Mathematics 2		30h+30h	4 Credits	2q	x	x
⊗	LPHY1102	Physics 2	Vincent Lemaitre	54h+36h	7 Credits	2q	x	x
⊗	LPHY1103	Additional physics		40h+10h	4 Credits	2q	x	x
⊗	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	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 niveau 1)

⊗	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	Yannick Agnan (coord.) Richard Lambert Caroline Vincke	30h +37.5h	5 Credits	2q	x	x
⊗	LGEO1231	Physical geography	Bas van Wesemael	30h+30h	5 Credits	1q	x	x
⊗	LGEO1251	Earth's history	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 [en-prerequis-2019-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 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 UCL account.

Information

Liste des bacheliers proposant cette mineure

- > Bachelor in Pharmacy [en-prog-2019-farm1ba]
- > Bachelor in Sociology and Anthropology [en-prog-2019-soca1ba]
- > Bachelor in religious studies [en-prog-2019-reli1ba]
- > Bachelor in Modern Languages and Literatures: German, Dutch and English [en-prog-2019-germ1ba]
- > Bachelor in Mathematics [en-prog-2019-math1ba]
- > Bachelor in Law [en-prog-2019-droi1ba]
- > Bachelor in Physics [en-prog-2019-phys1ba]
- > Bachelor in Human and Social Sciences [en-prog-2019-huso1ba]
- > Bachelor in History of Art and Archaeology : General [en-prog-2019-arke1ba]
- > Bachelor in Ancient Languages and Literatures : Classics [en-prog-2019-clas1ba]
- > Bachelor in Ancient Languages and Literatures: Oriental Studies [en-prog-2019-hori1ba]
- > Bachelor in Philosophy [en-prog-2019-filo1ba]
- > Bachelor in Economics and Management [en-prog-2019-ecge1ba]
- > Bachelor in Motor skills : General [en-prog-2019-edph1ba]
- > Bachelor in Political Sciences: General [en-prog-2019-spol1ba]
- > Bachelor in History [en-prog-2019-hist1ba]
- > Bachelor in Engineering [en-prog-2019-fsa1ba]
- > Bachelor in Computer Science [en-prog-2019-sinf1ba]
- > Bachelor in Information and Communication [en-prog-2019-comu1ba]
- > Bachelor in Ancient and Modern Languages and Literatures [en-prog-2019-lafr1ba]
- > Bachelor in French and Romance Languages and Literatures : General [en-prog-2019-rom1ba]
- > Bachelor in Biomedicine [en-prog-2019-sbim1ba]
- > Bachelor in Chemistry [en-prog-2019-chim1ba]
- > Bachelor in Geography : General [en-prog-2019-geog1ba]
- > Bachelor in Modern Languages and Literatures : General [en-prog-2019-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. 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

Curriculum Management

Faculty

Structure entity	SST/SC
Denomination	Faculty of Science (SC)
Sector	Sciences and Technology (SST)
Acronym	SC
Postal address	Place des Sciences 2 - bte L6.06.01 1348 Louvain-la-Neuve Tel: +32 (0) 10 47 33 24 - Fax: +32 (0) 10 47 28 37 http://www.uclouvain.be/sc
Web site	http://www.uclouvain.be/sc

Mandate(s)

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

Commission(s) of 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](#)

Usefull Contact(s)

- Vice-Dean of the Faculty of sciences, study advisor for the minor in scientific culture: [René Rezsóhazy](#)
- Administrative manager for the annual program of the student registered in the Faculty of sciences: [Nathalie Micha](#)

