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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 2015-2016

⊕ Periodic courses taught during 2015-2016

⊗ Optional

⊖ Periodic courses not taught during 2015-2016

■ 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	Biologie générale, y compris éléments de génétique humaine	André 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	André Lejeune	0h+45h	3 Credits	1 + 2q	x	x
⊗ LBIO1111	Cell biology and introduction to prokaryotes, protists and fungi	André 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	N.	30h+10h	3 Credits	2q	x	x
⊗ LBIO1112B	Biologie végétale	André Lejeune	22.5h +17h	3 Credits	2q	x	x

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

⊗ LBIO1251	Ecology	Hans Van Dyck, Renate Wesselingh	60h+15h	6 Credits	2q	x	x
⊗ LBIO1221	Introduction to genetics	André Lejeune	25h+15h	3 Credits	2q	x	x
⊗ LBIO1231B	Biologie animale - biologie des invertébrés	Bernard Knoops, Anne-Catherine Mailleux, Caroline Nieberding, Jean-François Rees	30h+60h	8 Credits	1q	x	x
⊗ LBIO1231C	Biologie animale - biologie comparée des vertébrés	Françoise 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	André Lejeune	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 (coord.)	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	Agnès 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	15h	2 Credits	1 + 2q	x	x
LPHYS1000	Introduction to physics	Jean-Marc Gérard	30h+15h	5 Credits	2q	x	x
LSC2002	Elements of mathematics and physics history	Patricia De Grave, Michel Willem	30h	4 Credits	1q	x	x
LECGE1112	Mathematics in economy and management	Pieter Klaessens, Pascal Lambrechts	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	Véronique Dehant (coord.), Patricia Lampens	15h+7.5h	2 Credits	2q	x	x
LELEC1930	Intoduction to telecommunication	Jérôme Louveaux	30h+15h	4 Credits	2q	x	x
LINGE1317	Research and technological development: energy, electronics and telecommunications	Hervé Jeanmart (coord.), 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

Sciences de la terre

Niveau 1 (cours abordables sans pré-requis)

LBIR1130	Introduction to Earth sciences	Pierre Delmelle, Philippe Sonnet (coord.)	45h+30h	6 Credits	2q	x	x
LGEO1111	General geography	Marie-Laurence De Keersmaecker, Bas van Wesemael	30h+30h	5 Credits	2q	x	x

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

LGEO1221	Elements of human geography	Marie-Laurence De Keersmaecker	30h+42h	5 Credits	1q	x	x
LGEO1231	Elements of physical geography	Bas van Wesemael	30h+30h	5 Credits	1q	x	x

							Year	
							2	3
⊗ LGEO1241	Cartography	Isabelle Thomas	30h+30h	5 Credits	2q	x	x	
⊗ LGEO1251	Geology	Philippe Sonnet	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 Fichet (coord.), Hugues Goosse	22.5h +7.5h	3 Credits	1q	x	x

⊗ Séminaires

⊗ LSC1300	Séminaire de culture scientifique	Bernard Knoops		5 Credits		x	x
⊗ LSC1350	Séminaire d'application des sciences	Bernard Knoops		5 Credits		x	x

COURSE PREREQUISITES

A document entitled [en-prerequis-2015-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-2015-soca1ba]
- > Bachelor in Information and Communication [en-prog-2015-comu1ba]
- > Bachelor in Modern Languages and Letters: German, Dutch and English [en-prog-2015-germ1ba]
- > Bachelor in History of Art and Archaeology : General [en-prog-2015-arke1ba]
- > Bachelor in Biomedicine [en-prog-2015-sbim1ba]
- > Bachelor in Motor skills : General [en-prog-2015-edph1ba]
- > Bachelor in Geography : General [en-prog-2015-geog1ba]
- > Bachelor in Ancient Languages and Letters : Classics [en-prog-2015-clas1ba]
- > Bachelor in Ancient Languages and Letters: Oriental Studies [en-prog-2015-hori1ba]
- > Bachelor in History [en-prog-2015-hist1ba]
- > Bachelor in Mathematics [en-prog-2015-math1ba]
- > Bachelor in Political Sciences: General [en-prog-2015-spol1ba]
- > Bachelor in Law [en-prog-2015-droi1ba]
- > Bachelor in Physics [en-prog-2015-phys1ba]
- > Bachelor in Engineering [en-prog-2015-fsa1ba]
- > Bachelor in Philosophy [en-prog-2015-filo1ba]
- > Bachelor in Modern Languages and Letters : General [en-prog-2015-roge1ba]
- > Bachelor in French and Romance Languages and Letters : General [en-prog-2015-rom1ba]
- > Bachelor in religious studies [en-prog-2015-reli1ba]
- > Bachelor in Pharmacy [en-prog-2015-farm1ba]
- > Bachelor in Computer Science [en-prog-2015-sinf1ba]
- > Bachelor in Human and Social Sciences [en-prog-2015-huso1ba]
- > Bachelor in Economics and Management [en-prog-2015-ecge1ba]
- > Bachelor in Ancient and Modern Languages and Letters [en-prog-2015-lafr1ba]
- > Bachelor in Biology [en-prog-2015-biol1ba]
- > Bachelor in Chemistry [en-prog-2015-chim1ba]

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 Managment

Entite de la structure SC

Sigle	SC
Dénomination	Faculté des sciences
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Mandats [Jan Govaerts](#)

Doyen

[Marie-Thérèse Schayes](#)

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)

Plates-formes Antenne de formation et de promotion du secteur sciences et technologies (AFPS)

Academic Supervisor : [Jan Govaerts](#)

Jury:

Usefull Contacts

Directrice administrative de la Faculté : [Marie-Thérèse Schayes](#)

Infos
