UCLouvain

UCL Study programme 2020 - 2021

Minor in Scientific Culture

Table of contents

Introduction 2
Teaching profile 3
- Learning outcomes 3
- Detailled programme 3
  - Programme by subject 3
  - Course prerequisites 5
  - The programme's courses and learning outcomes 5
Information 7
- Access Requirements 7
- Evaluation 7
- Possible trainings at the end of the programme 7
- Contacts 7

MINCULTS - Introduction

Introduction

MINCULTS - Teaching profile

Learning outcomes

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

Detailled programme

PROGRAMME BY SUBJECT

○ Mandatory	⊠ Optional
△ Courses not taught during 2020-2021	⊘ Periodic courses not taught during 2020-2021
⊕ Periodic courses taught during 2020-2021	Activity with requisites

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

○ ***Content:***

⊠ Biologie

⊠ Niveau 1 (cours abordables sans pré-requis)

						Year 2	Year 3
⊠ LPSP1005	General biology, including elements of human genetics	André Moens	30h	4 Credits	q1	x	x
⊠ LBIO1110	Life : diversity and evolution	Patrick Dumont Thierry Hance Caroline Nieberding (coord.)	30h+10h	4 Credits	q1	x	x
⊠ LBIO1111	Cell and molecular biology	André Lejeune	30h+20h	5 Credits	q1	x	x
⊠ LBIO1112	Organism biology : plants and animals	André Lejeune Jean-François Rees	30h+20h	5 Credits	q2	x	x
⊠ LBIO1114	Introduction to biology	Patrick Dumont Caroline Nieberding	30h+7.5h	3 Credits	q2	x	x
⊠ LBIO1116	Scientific approach in biology	Muriel Quinet	30h+30h	6 Credits	q2	x	x
⊠ LBIO1117	Ecology I	Hans Van Dyck Renate Wesselingh (coord.)	30h+10h	4 Credits	q2	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	q1	x	x
⊠ LBIR1352	General genetics	Jacques Mahillon (compensates Philippe Baret)	45h+15h	5 Credits	q2	x	x
⊠ LBIR1352A	Génétique générale - partim A	Jacques Mahillon (compensates Philippe Baret)	30h+7.5h	3 Credits	q2	x	x
⊠ LBIR1352B	Génétique générale - partim B	Jacques Mahillon (compensates Philippe Baret)	0h+7.5h	4 Credits	q2	x	x
⊠ LBIO1221	Genetics	Charles Hachez André Lejeune	20h+15h	2 Credits	q2	x	x
⊠ LBIO1230	Invertabrate biology	Jean-François Rees	10h+40h	4 Credits	q1	x	x

						Year 2	3
⊠ LBIO1234A	Animal histology	Anne-Catherine Gérard (compensates Bernard Knoops)	20h+10h	2 Credits	q1	x	x
⊠ LBIO1235	General cell physiology	Stanley Lutts Jean-François Rees	15h+15h	2 Credits	q1	x	x
⊠ LBIO1240	Plant physiology	Xavier Draye Stanley Lutts	40h+15h	4 Credits	q1	x	x
⊠ LBIO1213	Morphology and physiology of fungi	Stephan Declerck	15h+10h	2 Credits	q1	x	x
⊠ LBIO1217	Ecology II	Thierry Hance Caroline Nieberding Hans Van Dyck Renate Wesselingh (coord.)	30h+10h	3 Credits	q2	x	x
⊠ LBIO1254	Animal behavior	Françoise Gofflot Hans Van Dyck	20h+10h	2 Credits	q1 ⊕	x	x
⊠ LBIO1248	Biology and society : interdisciplinary approche of current scientific questions	Myriam De Kesel Stanley Lutts Jean-François Rees	15h+15h	2 Credits	q1 ⊘	x	x
⊠ LBIO1317	Functional ecology	Caroline Nieberding Renate Wesselingh	30h	2 Credits	q1	x	x
⊠ LCHM1271A	Eléments de biochimie	Patrice Soumillion	30h+20h	3 Credits	q1	x	x

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

⊠ LBIR1350	General Microbiology	Jacques Mahillon	37.5h +15h	4 Credits	q2	x	x

⊠ 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	q1	x	x
⊠ LCHM1111	General chemistry	Michel Devillers	45h +67.5h	11 Credits	q1	x	x
⊠ LCHM1111A	General chemistry	Michel Devillers	45h+30h	6 Credits	q1	x	x
⊠ LCHM1111B	General chemistry	Michel Devillers	45h+45h	8 Credits	q1	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	q2	x	x
⊠ LCHM1141A	Organic chemistry	Benjamin Elias (coord.) Charles-André Fustin	30h+20h	5 Credits	q2	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	q1	x	x
⊠ LINGE1122	Physics 1	Giacomo Bruno	40h+20h	5 Credits	q2	x	x
⊠ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	30h+20h	4 Credits	q1	x	x
⊠ LPHY1101	Physics 1	Thierry Fichefet	30h+40h	6 Credits	q1	x	x
⊠ LPHYS1000	Introduction to physics	Jean-Marc Gérard	30h+15h	4 Credits	q2	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	q2	x	x

						Year 2	3
⊠ LINGE1317	Research and technological development: energy, electronics and telecommunications	Francesco Contino Benoît Macq	32.5h +7.5h	4 Credits	q1	x	x
⊠ LINGE1327	Research and technological development: mechanical, chemical and materials	Paul Fisette Bernard Nysten	32.5h +7.5h	4 Credits	q2	x	x
⊠ LMAT1102	Mathematics 2	Augusto Ponce	30h+30h	4 Credits	q2	x	x
⊠ LPHY1102	Physics 2	Vincent Lemaitre	54h+36h	7 Credits	q2	x	x
⊠ LPHY1103	Additional physics	Adrien Poncelet (compensates Fabio Maltoni)	40h+10h	4 Credits	q2	x	x
⊠ LPHYS1214	Astronomy and geophysics	Véronique Dehant Patricia Lampens	22.5h +15h	5 Credits	q2	x	x
⊠ LPHYS1241	Quantum Physics 1	Marco Drewes	30h+30h	5 Credits	q2	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	q2	x	x
⊠ LBIR1230	Introduction to biosphere engineering	Philippe Baret (coord.) Pierre Defourny Pierre Delmelle	60h	5 Credits	q2	x	x
⊠ LGEO1111	Earth and society : perspectives from geography	Marie-Laurence De Keersmaecker Bas van Wesemael	30h+15h	4 Credits	q2	x	x
⊠ LGEO1221	Elements of human geography	Marie-Laurence De Keersmaecker	30h+30h	5 Credits	q1	x	x
⊠ LGEO1241	Cartography and spatial data analysis	Patrick Meyfroidt Isabelle Thomas	30h+30h	5 Credits	q2	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	q1	x	x
⊠ LBIR1334	Introduction to forestry sciences	Quentin Ponette (coord.) Caroline Vincke	22.5h +15h	3 Credits	q2	x	x
⊠ LBIR1336	Sciences du sol et excursions intégrées	Yannick Agnan (coord.) Richard Lambert Caroline Vincke	30h +37.5h	5 Credits	q2	x	x
⊠ LGEO1231	Physical geography	Bas van Wesemael	30h+30h	5 Credits	q1	x	x
⊠ LGEO1251	Earth's history	Veerle Vanacker	30h+60h	6 Credits	q2	x	x

⊠ Séminaires

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

COURSE PREREQUISITES

There are no prerequisites between course units (CUs) for this programme, i.e. the programme activity (course unit, CU) whose learning outcomes are to be certified and the corresponding credits awarded by the jury before registration in another CU.

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?"*

MINCULTS - Information

Access Requirements

Specific access 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

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
Website	http://www.uclouvain.be/sc

Mandate(s)

- Dean : Enrico Vitale
- Administrative director : 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

Useful Contact(s)

- Jean-François Gohy
- Nathalie Micha