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## Introduction

### Introduction

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## Teaching profile

### Learning outcomes

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To provide training in a discipline other than that of the baccalaureate major.

## 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...)

L'étudiant.e choisit dans la liste ci-dessous 30 crédits qu'il.elle répartit de la façon suivante : 10 crédits durant le second quadrimestre du deuxième bloc annuel ; 10 ou 15 crédits durant le premier quadrimestre du troisième bloc annuel et 10 ou 5 crédits durant le second quadrimestre du troisième bloc annuel.

Year

2 3

#### ☒ Formation spécialisée en physique

☒ LMECA1901	<a href="#">Continuum mechanics.</a>	Philippe Chatelain Issam Doghri	30h+30h	5 Credits	1q		x
☒ LPHYS1214	<a href="#">Astronomy and geophysics</a>	Véronique Dehant Patricia Lampens	22.5h +15h	5 Credits	2q	x	
☒ LPHY2111	<a href="#">Introduction to non linear dynamics</a>	Christian Hagendorf	22.5h +22.5h	5 Credits	1q		x
☒ LPHY2141	<a href="#">Optics and lasers</a>	Alain Cornet Clément Lauzin	22.5h +22.5h	5 Credits	1q		x
☒ LPHY2153	<a href="#">Introduction to the physics of the climate system and its modeling</a>	Hugues Goosse Jean-Pascal van Ypersele de Strihou	22.5h +22.5h	5 Credits	1q		x

#### ☒ Formation en mathématique

☒ LMAT1221	<a href="#">Mathematical analysis : integration</a>	Heiner Olbermann	30h+30h	5 Credits	1q		x
☒ LMAT1223	<a href="#">Differential equations</a>		30h+15h	5 Credits	2q	△	x x
☒ LMAT1231	<a href="#">Multilinear algebra and group theory</a>	Tim Van der Linden	30h+30h	5 Credits	1q		x
☒ LMAT1241	<a href="#">Geometry II</a>	Pierre Bieliavsky	45h+30h	6 Credits	2q	x	x
☒ LPHYS1304	<a href="#">Group theory</a>	Philippe Ruelle	22.5h +22.5h	5 Credits	2q		x

#### ☒ Formation en techniques numériques et instrumentales, en science des données et en informatique

☒ LMAT1271	<a href="#">Calculation of probability and statistical analysis</a>	Mickaël De Backer (compensates Catherine Timmermans) Rainer von Sachs	30h+30h	6 Credits	2q	x	x
☒ LPHY2137	<a href="#">Analog Electronics</a>	Eduardo Cortina Gil	22.5h +22.5h	5 Credits	2q		x
☒ LPHY2239	<a href="#">Data acquisition, digital electronics and microelectronics</a>	Eduardo Cortina Gil Krzysztof Piotrkowski	22.5h +22.5h	5 Credits	2q	x	x
☒ LEPL1106	<a href="#">Signaux et systèmes</a>		30h+30h	5 Credits	2q	△	x x

#### ☒ Formation en chimie

☒ LCHM1243	<a href="#">Introduction to organic chemistry and to biochemistry</a>	Pierre Morsomme	22.5h +22.5h	5 Credits	2q	x	
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## COURSE PREREQUISITES

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A document entitled (nb: not available for this programme lphys100p) specifies the activities (course units - CU) with one or more prerequisite(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

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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 Physics [en-prog-2018-phys1ba]

### Admission

### 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".*

### 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

Entity	
Structure entity	SST/SC/PHYS
Denomination	(PHYS) ( <a href="https://uclouvain.be/repertoires/entites/phys">https://uclouvain.be/repertoires/entites/phys</a> )
Faculty	Faculty of Science (SC) ( <a href="https://uclouvain.be/repertoires/entites/sc">https://uclouvain.be/repertoires/entites/sc</a> )
Sector	Sciences and Technology (SST) ( <a href="https://uclouvain.be/repertoires/entites/sst">https://uclouvain.be/repertoires/entites/sst</a> )
Acronym	PHYS
Postal address	Chemin du Cyclotron 2 - bte L7.01.04 1348 Louvain-la-Neuve Tel: +32 (0) 10 47 32 94 - Fax: +32 (0) 10 47 30 68
Web site	<a href="https://uclouvain.be/fr/facultes/sc/phys">https://uclouvain.be/fr/facultes/sc/phys</a> ( <a href="https://uclouvain.be/fr/facultes/sc/phys">https://uclouvain.be/fr/facultes/sc/phys</a> )
Academic supervisor: Thierry Fichet	
Useful Contact(s)	<ul style="list-style-type: none"><li>• Christian Hagendorf</li><li>• Julie Genbrugge</li></ul>

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