



## MINPHYS - Introduction

### Introduction

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#### Introduction

The minor in physics offers additional training in physics that facilitates access to the [Master \[120\] in Physics](#) and the [Master \[60\] in Physics](#)

## MINPHYS - Teaching profile

### Learning outcomes

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At the end of this programme, the student will have acquired a basic knowledge of the fundamental laws of physics and the basic concepts of mathematics necessary for the study of physics. He/she will be able to solve physics problems using mathematical and numerical tools, to analyze physical phenomena using experimental techniques, to model simple physical systems, to apply a scientific approach and to argument with rigor. He/she will have developed skills in self-reliance, communication and teamwork. 1 0 0 1 481.890991 68.14600402

Year

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⊗ LPHYS1114	Thermodynamics	Thierry Fichet	FR [q2] [22.5h+20h] [5 Credits] 🌐	X	
⊗ LPHYS1213	Physics of fluids	Eric Deleersnijder Vincent Legat	FR [q2] [37.5h+30h] [5 Credits] 🌐	X	
⊗ LPHYS1214	Astronomy and geophysics	Gwenhaël de Wasseige Jérémy Requier	FR [q2] [22.5h+15h] [5 Credits] 🌐	X	
⊗ LPHYS1221	Electromagnetism 1	Gwenhaël de Wasseige Vincent Lemaître	FR [q1] [52.5h+52.5h] [10 Credits] 🌐	X	
⊗ LPHYS1221A	Electromagnetism 1	Gwenhaël de Wasseige Vincent Lemaître	FR [q1] [40h+40h] [7 Credits] 🌐	X	
⊗ LPHYS1231	Special Relativity	Marco Drewes	FR [q2] [30h+15h] [5 Credits] 🌐	X	
⊗ LPHYS1241	Quantum Physics 1	Agni Bethani Matthieu Génévriez	FR [q2] [30h+30h] [5 Credits] 🌐	X	
⊗ LPHYS1303	Numerical Simulation in Physics	Francesco Ragone	FR [q1] [22.5h+30h] [5 Credits] 🌐 > English-friendly		X
⊗ LPHYS2211	Group theory	Philippe Ruelle	EN [q2] [22.5h+22.5h] [5 Credits] 🌐 > French-friendly		X
⊗ LPHYS1322	Electromagnetism 2	Céline Degrande	FR [q1] [37.5h+22.5h] [5 Credits] 🌐 > English-friendly		X
⊗ LPHYS1332	General Relativity	Christophe Ringeval	FR [q1] [30h+22.5h] [5 Credits] 🌐 > English-friendly		X
⊗ LPHYS1342	Quantum Physics 2	Christophe Ringeval	FR [q1] [45h+22.5h] [5 Credits] 🌐 > English-friendly		X
⊗ LPHYS1343	Statistical physics	Christian Walmsley Hagendorn	FR [q2] [45h+30h] [6 Credits] 🌐 > English-friendly		X

## MINPHYS - Information

### Access Requirements

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The minor in physics is offered to Bachelor's students in mathematics, geography, general orientation, and engineering, civil engineering orientation. It is also accessible, on the advice of the study advisor, to students who have received sufficient training in physics and mathematics.

### Evaluation

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**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

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Bachelor's students in mathematics, geography, general orientation, and engineering, civil engineering orientation, who have followed this minor will be admitted to the Master [120] in physics and the Master [60] in physics. Their programme will usually include some of the teaching units of the Bachelor in physics that they have not followed. The same rule applies to other students who have followed this minor, with possible restrictions depending on their training. However, the student wishing to make such a change is invited to contact as soon as possible the study advisors of his school and the School of Physics.

### Contacts

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#### Curriculum Management

Entity	
Structure entity	SST/SC/PHYS
Denomination	<a href="#">(PHYS)</a>
Faculty	Faculty of Science <a href="#">(SC)</a>
Sector	Sciences and Technology <a href="#">(SST)</a>
Acronym	PHYS
Postal address	Chemin du Cyclotron 2 - bte L7.01.04 1348 Louvain-la-Neuve Tel: <a href="tel:+32210473294">+32 (0) 10 47 32 94</a> - Fax: <a href="tel:+32210473068">+32 (0) 10 47 30 68</a> <a href="https://uclouvain.be/fr/facultes/sc/phys">https://uclouvain.be/fr/facultes/sc/phys</a>
Website	
Academic supervisor:	<a href="#">Vincent Lemaitre</a>

The registration for the teaching units of a minor is done at the same time as the registration to the teaching units of the major. The same goes for exam registration.

**Timetable of courses and examinations**

