

Table of contents

Introduction	2
Teaching profile	3
- Learning outcomes	3
- Detailed programme	3
- Programme by subject	3
Information	4
- Liste des bacheliers proposant cette mineure	4
- Admission	4
- Possible trainings at the end of the programme	4
- Contacts	4
- Infos	4

Introduction

Introduction

Teaching profile

Learning outcomes

The aim of the minor is to provide students whose core program (major) includes a substantial introduction to this field and who could envisage studying for a master's in physical science with additional training in physics.

Detailed programme

PROGRAMME BY SUBJECT

● Mandatory

△ Courses not taught during 2014-2015

⊕ Periodic courses taught during 2014-2015

⊗ Optional

⊖ Periodic courses not taught during 2014-2015

‡ Two years course

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

Year

2 3

⊗ Cours accessibles dès la deuxième année de baccalauréat

Course ID	Course Title	Instructor	Hours	Credits	Year 2	Year 3
⊗ LPHY1211	General Physics 3	Jan Govaerts, Vincent Lemaître	30h+30h	5 Credits	1q	x
⊗ LPHY1221	Group theory	Philippe Ruelle	22.5h +15h	5 Credits	2q	x
⊗ LPHY1222	Quantum Physics	Fabio Maltoni	30h+30h	5 Credits	2q	x
⊗ LPHY1223	Special Relativity	Jean-Marc Gérard	22.5h +15h	4 Credits	1q	x
⊗ LPHY1251	Statistical physics and Thermodynamics I	Hugues Goosse, Christian Hagendorf	30h +22.5h	4 Credits	2q	x
⊗ LPHY1261	Astronomy and geophysics	Véronique Dehant (coord.), Patricia Lampens	15h+7.5h	2 Credits	2q	x

⊗ Cours accessibles dès la troisième année de baccalauréat

Course ID	Course Title	Instructor	Hours	Credits	Year 2	Year 3
⊗ LPHY1311	Classical electromagnetism	Krzysztof Piotrkowski	37.5h +15h	6 Credits	1q	x
⊗ LPHY1322	Quantum Physics 2	Christophe Ringeval	45h +22.5h	6 Credits	1q	x
⊗ LPHY1331	Elementary nuclei and particules	Vincent Lemaître	30h+10h	4 Credits	2q	x
⊗ LPHY1341	Atoms and molecules	Clément Lauzin, Xavier Urbain	30h+10h	4 Credits	2q	x
⊗ LPHY1351	Statistical and thermodynamic physics 2	Christian Hagendorf	30h +22.5h	4 Credits	2q	x
⊗ LPHY1352	Physics of fluids	Eric Deleersnijder, Vincent Legat	45h +22.5h	6 Credits	1q	x
⊗ LPHY1342	Etat solide	Giacomo Bruno, Christophe Delaere	30h+20h	5 Credits	2q	x
⊗ LPHY2371	Numerical Simulation in Physics	Michel Crucifix, Bernard Piroux	22.5h +30h	5 Credits	1q	x
⊗ LPHY2372	Experimental methods	Krzysztof Piotrkowski, Xavier Urbain	30h+15h	5 Credits	1q	x

Information

Liste des bacheliers proposant cette mineure

- > Bachelor in Engineering [en-prog-2014-fsa1ba]
- > Bachelor in Economics and Management [en-prog-2014-ecge1ba]
- > Bachelor in Mathematics [en-prog-2014-math1ba]
- > Bachelor in Geography : General [en-prog-2014-geog1ba]

Admission

The minor in physics is intended for all students who hold baccalaureates in mathematical science, geographical science or engineering science. It is also open, on the advice of the conseiller aux études (course adviser), to students who have obtained sufficient training in basic mathematics and physics.

Possible trainings at the end of the programme

MATH, FSA or GEOG bachelors who have taken this minor will be admitted on to the master's in physical science, possibly with a program adapted to suit their needs. The same rule applies to other students who have taken this minor, with possible restrictions depending on their course background. Nevertheless, any student who wishes to make this change to his/her study path is invited to make contact with the conseiller aux études (course adviser) from his/her own faculty as well as that of the department of physics.

Contacts

Curriculum Management

Entite de la structure PHYS

Acronyme	PHYS
Dénomination	Ecole de physique
Adresse	Chemin du Cyclotron, 2 bte L7.01.04 1348 Louvain-la-Neuve Tél 010 47 32 94 - Fax 010 47 30 68
Site web	https://www.uclouvain.be/phys
Secteur	Secteur des sciences et technologies (SST)
Faculté	Faculté des sciences (SC)
Commission de programme	Ecole de physique (PHYS)

Jury

Usefull Contacts

Conseiller aux études : **Vincent Lemaitre**

Secrétaire de l'Ecole de physique : **Roseline Van Dyck**

Infos

