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## Introduction

### Introduction

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## Teaching profile

## Learning outcomes

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

## 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 au choix (30 crédits)**

L'étudiant choisit parmi les cours suivants 10 crédits en 2e année et 20 crédits en 3e année, et ce en concertation avec le conseiller aux études.

Code	Titre	Enseignant	Volume	Credits	2e	3e	4e
⊗ LMAT1235	<a href="#">Some notions of mathematical logic</a>	Tim Van der Linden	30h+15h	5 Credits	2q	x	
⊗ LMAT1341	<a href="#">Courbes elliptiques</a>	Luc Haine	30h	3 Credits	1q		x
⊗ LMAT2440	<a href="#">Number theory</a>	Olivier Pereira, Jean-Pierre Tignol	30h+15h	5 Credits	1q		x
⊗ LMAT2450	<a href="#">Cryptography</a>	Olivier Pereira	30h+15h	5 Credits	1q		x
⊗ LMAT2460	<a href="#">Finite mathematics and combinatorial structures</a>	Jean-Charles Delvenne, Jean-Pierre Tignol	30h	5 Credits	1q		x
⊗ LSC2002	<a href="#">Elements of mathematics and physics history</a>	Patricia De Grave, Michel Willem	30h	4 Credits	1q	x	
⊗ LPHY1211	<a href="#">General Physics 3</a>	Jan Govaerts, Vincent Lemaître	30h+30h	4 Credits	1q	x	
⊗ LPHY1221	<a href="#">Group theory</a>	Philippe Ruelle	22.5h +15h	5 Credits	2q		x
⊗ LPHY1222	<a href="#">Quantum Physics</a>	Fabio Maltoni	30h+30h	5 Credits	2q	x	x
⊗ LPHY1223	<a href="#">Special Relativity</a>	Jean-Marc Gérard	22.5h +15h	4 Credits	1q	x	
⊗ LPHY1224	<a href="#">Méthodes mathématiques pour la physique</a>	Christian Hagendorf, Christophe Ringeval	15h+30h	4 Credits	1q		x
⊗ LPHY1261	<a href="#">Astronomy and geophysics</a>	Véronique Dehant (coord.), Patricia Lampens	15h+7.5h	2 Credits	2q	x	x
⊗ LPHY1322	<a href="#">Quantum Physics 2</a>	Christophe Ringeval	45h +22.5h	6 Credits	1q		x
⊗ LSTAT2130	<a href="#">Introduction to Bayesian statistics.</a>	Philippe Lambert	15h+5h	4 Credits	2q		x
⊗ LINGE1221	<a href="#">Econometrics</a>	Christian Hafner	30h+15h	5 Credits	2q		x
⊗ LPHY1271	<a href="#">Computer Science and Numerical Methods</a>	Giacomo Bruno	15h+30h	4 Credits	1q	x	x
⊗ LSINF1101	<a href="#">Introduction to programming</a>	Olivier Bonaventure, Sébastien Combéfis (compensates Olivier Bonaventure), Charles Pecheur	30h+30h	6 Credits	1q	x	
⊗ LSINF1103	<a href="#">Algorithmics</a>	Pierre Dupont	30h+30h	6 Credits	2q	x	
⊗ LINGI1101	<a href="#">Discrete mathematics: logical foundations of computing science</a>	Peter Van Roy	30h+30h	5 Credits	1q	x	x
⊗ LINGI1123	<a href="#">Computability and complexity</a>	Yves Deville	30h+30h	5 Credits	2q	x	x

						Year	
						2	3
⊗ LINMA1702	Applied mathematics : Optimization I	Vincent Blondel, François Glineur (compensates Vincent Blondel), François Glineur (coord.)	30h +22.5h	5 Credits	2q	x	x
⊗ LINMA1731	Stochastic processes : Estimation and prediction	Pierre-Antoine Absil, Luc Vandendorpe (coord.)	30h+30h	5 Credits	2q	x	x
⊗ LSTAT2040	Statistical analysis	Anouar El Ghouch, Ingrid Van Keilegom	30h+15h	5 Credits	2q	x	x
⊗ LINMA1691	Discrete mathematics - Graph theory and algorithms	Vincent Blondel, Jean-Charles Delvenne (compensates Vincent Blondel)	30h +22.5h	5 Credits	1q	x	x

## Information

### Liste des bacheliers proposant cette mineure

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> [Bachelor in Mathematics](#) [en-prog-2014-math1ba]

### Admission

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### Possible trainings at the end of the programme

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### Contacts

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### Curriculum Managment

Entite de la structure MATH

Acronyme	<b>MATH</b>
Dénomination	Ecole de mathématique
Adresse	Chemin du Cyclotron, 2 bte L7.01.02 1348 Louvain-la-Neuve Tél 010 47 31 52 - Fax 010 47 25 30
Site web	<a href="https://www.uclouvain.be/math">https://www.uclouvain.be/math</a>
Secteur	Secteur des sciences et technologies (SST)
Faculté	Faculté des sciences (SC)
Commission de programme	Ecole de mathématique (MATH)

### Jury

### Usefull Contacts

Conseiller aux études : **Pierre Bieliavsky**

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

### Infos

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