



## APPMATH - Introduction

### Introduction










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#### Introduction

The aim of the in-depth minor in mathematics is to offer learning that is supplementary to the discipline of the Bachelor's major. The very wide range of courses has been devised for students of the Bachelor in Mathematics


- who wish to supplement their Bachelor course with courses that remain within the field of mathematics, and/or
- who wish to supplement their Bachelor course with courses close to mathematics but who do not wish to undertake a single-topic minor (minor in computer science, in physics, in engineering science, applied mathematics, etc.).



				Year		
				2	3	
⌘	LMAT2440	Number theory	Pierre-Emmanuel Caprace Olivier Pereira	FR [q2] [30h+15h] [5 Credits]  > English-friendly		x
⌘	LMAT2170	History and epistemology of mathematics	Pierre Bieliavsky Pierre-Emmanuel Caprace Marino Gran Jean Van Schaftingen	FR [q2] [30h+15h] [5 Credits] 	x	x
<b>⌘ Mathématiques appliquées et informatique</b>						
⌘	LMAT2450	Cryptography	Olivier Pereira	FR [q1] [30h+15h] [5 Credits]  > French-friendly		x
⌘	LMAT2460	Finite mathematics and combinatorial structures	Jean-Charles Delvenne Raphaël Jungers	FR [q1] [30h] [5 Credits] 		x
⌘	LEPL1110	Finished elements	Vincent Legat Jean-François Remacle	FR [q2] [30h+30h] [5 Credits] 	x	x
⌘	LINMA1170	Numerical analysis	Jean-François Remacle	FR [q2] [30h+22.5h] [5 Credits] 	x	x
⌘	LINMA1691	Discrete mathematics - Graph theory and algorithms	Jean-Charles Delvenne Jean-Charles Delvenne (compensates Vincent Blondel)	FR [q1] [30h+22.5h] [5 Credits] 	x	x
⌘	LINMA1702	Optimization models and methods I	François Glineur	FR [q2] [30h+22.5h] [5 Credits] 	x	x
⌘	LINFO1123	Calculability, Logic and Complexity	Yves Deville	FR [q2] [30h+30h] [5 Credits] 	x	x

x

Year

⌘ LBIR2050	<b>Challenges of sustainable development and transition</b> <i>Les unités d'enseignement LEPL1804 et LBIR2050 ne sont pas cumulables: si l'étudiant a déjà suivi ou suit l'une de ces 2 UEs, il ne peut pas s'inscrire à l'autre.</i>	Valentin Couvreur Nathalie Delzenne Valérie Swaen (coord.)	PK [q2] [30h] [5 Credits] 	2	3
				x	x

## THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

## APPMATH - Information

### Access Requirements

This minor is accessible from the second year, only to students enrolled in the Bachelor of Mathematics programme.

### Evaluation

**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

The in-depth minor in mathematics supplements the training of Bachelor of Mathematics students.

The Bachelor in Mathematics has access to the following programmes:

- master 120 in mathematics, research or teaching focus;
- master 60 in mathematics;
- master in statistics, general or biostatistics;
- master in actuarial science.

### Contacts

#### Curriculum Management

Entity

Structure entity

Denomination

Faculty

Sector

Acronym

Postal address

SST/SC/MATH

(MATH)

Faculty of Science (SC)

Sciences and Technology (SST)

MATH

Chemin du Cyclotron 2 - bte L7.01.02

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<https://uclouvain.be/fr/facultes/sc/math>

Website

Academic supervisor: [Jean Van Schaftingen](#)

Useful Contact(s)

- Study advisor: [Pierre Bieliavsky](#)
- Administrative manager for the student's annual program: [Nathalie Micha](#)
- Secretary of the School of mathematics: [Catherine De Roy](#)

