



## APPMATH - Introduction

### Introduction

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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

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## APPMATH - Teaching profile

### Learning outcomes

The in-depth minor in mathematics contributes to the acquisition of the knowledge and skills appropriate to the Bachelor of Mathematics:

- disciplinary basics needed to pursue studies in mathematics or in closely related fields.
- capacity for abstract thought and critical spirit
- skills in scientific communication
- independent learning

These skills are detailed in the presentation of the programme for the Bachelor in Mathematics. Depending on the courses chosen, the student will have acquired supplementary training in closely related disciplines (physics, statistics and probability, economics, computing, applied mathematics). These courses help to develop the capacity for the analysis, in depth and from a variety of points of view, of a mathematical problem or a complex system belonging to scientific disciplines other than mathematics, in order to extract the essential features and to relate them to the most suitable theoretical tools.

### Programme

#### DETAILED PROGRAMME BY SUBJECT

- Mandatory
- ⊗ Optional
- △ Not offered in 2023-2024
- ⊙ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 or the following year
- Activity with requisites
- ⊗ Open to incoming exchange students
- ⊗ Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

30 crédits

Year

2 3

#### ○ Content:

#### ○ Cours au choix (30 crédits)

From the following courses, students choose 10 credits in the second year and 20 credits in the third year, in agreement with their study adviser.


⊗ LMAT1235	Some notions of mathematical logic	Tim Van der Linden Enrico Vitale	[FR] [q2] [30h+15h] [5 Credits] > English-friendly	X	
⊗ LMAT1261	Lagrangian and Hamiltonian mechanics	Christian Walmsley Hagendorf		X	
⊗ LMAT1323					

Year

2 3

⌘ LMAT2440

Number theory

Pierre-Emmanuel  
Caprace  
Pierre-Emmanuel  
Caprace (compensates  
Olivier Pereira)[q1] [30h+15h] [5 Credits]   
> English-friendly

## 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 (<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".**

### Possible trainings at the end of the programme

- 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

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

Website

Academic supervisor: [Jean Van Schafingen](https://uclouvain.be/repertoires/jean.vanschafingen) (<https://uclouvain.be/repertoires/jean.vanschafingen>)

- Study advisor: [Pierre Bieliavsky](https://uclouvain.be/repertoires/pierre.bieliavsky) (<https://uclouvain.be/repertoires/pierre.bieliavsky>)
- Administrative manager for the student's annual program: [Nathalie Micha](https://uclouvain.be/repertoires/nathalie.micha) (<https://uclouvain.be/repertoires/nathalie.micha>)
- Secretary of the School of mathematics: [Catherine De Roy](https://uclouvain.be/repertoires/catherine.deroy) (<https://uclouvain.be/repertoires/catherine.deroy>)

