 *The version you're consulting is not definitive. This programme still may change. The final version will be published on 1th June.*

Table of contents

Introduction	2
Teaching profile	3
Learning outcomes	3
Programme	3
Detailed programme by subject	3
The programme's courses and learning outcomes	4
Information	5
Access Requirements	5
Evaluation	5
Possible trainings at the end of the programme	5
Contacts	5

APPENSMAT - Introduction

Introduction

Introduction

The aim of the minor in mathematics teaching is to provide additional training in the major subject of the bachelor's degree [Bachelor in Mathematics](#).

This training will enable students attracted to the teaching profession to strengthen their career plans and broaden their basic training, beyond the subject field, to include different facets of the teaching profession.

This minor includes basic courses in psychology and educational science, courses to broaden scientific culture to encourage interaction with other scientific disciplines, and courses in mathematics, statistics and computer science chosen for their epistemological and disciplinary qualities in the context of teaching mathematics.

APPENSMAT - Teaching profile

Learning outcomes

On successful completion of this programme, each student is able to :

1 Master in-depth knowledge and skills in certain disciplinary fields/areas of the major (in order to facilitate the choice of Masters).

2 Gain initial work experience to help you plan your future career.

3 To understand the specific features of the educational sciences and other scientific disciplines, and to develop a complementary approach to that of the discipline in which the student is studying in order to enhance the student's teaching skills.

4 Acquire and demonstrate an understanding of a base of knowledge in education sciences and other scientific disciplines in order to appreciate their specific features.

Programme

DETAILED PROGRAMME BY SUBJECT

- Mandatory
- ⊗ Optional
- △ Not offered in 2025-2026
- ⊙ Not offered in 2025-2026 but offered the following year
- ⊕ Offered in 2025-2026 but not the following year
- △ ⊕ Not offered in 2025-2026 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...)

Year

2 3

o Content:

o Psychologie et sciences de l'éducation

Minimum 2 element(s)

⊗ LMAT1211	Observation teaching placement in mathematics (20h) [C]		FR [q1+q2] [7.5h+0h] [2 Credits] 🌐	X	X
⊗ LPSP1003	Introduction to development psychology		FR [q2] [45h] [5 Credits] 🌐	X	X
⊗ LPSP1206	Psychology of education		FR [q2] [60h] [6 Credits] 🌐	X	X
⊗ LPSP1323	Pedagogical trends and teaching methods	Vanessa Hanin	FR [q2] [30h] [5 Credits] 🌐	X	X
⊗ LLOGO1324	Digital development and dyscalculia	Marie-Pascale Noël	FR [q1] [30h] [4 Credits] 🌐	X	X









o Développement durable et culture scientifique

Maximum 15 credit(s)

● LGEO1232	The climate and its changes		FR [q2] [30h] [5 Credits] 🌐	X	X
⊗ LBIO1110	Life : diversity and evolution		FR [q1] [30h+10h] [5 Credits] 🌐	X	X
⊗ LCHM1112	General Chemistry	Yaroslav Filinchuk	FR [q1] [30h+22.5h] [5 Credits] 🌐	X	X
⊗ LECGE1108	Pratiquer l'économie (1) - Économie politique [C]		FR [q1] [45h+15h] [5 Credits] 🌐	X	X
⊗ LGEO1111	Earth and society : perspectives from geography	Eric Lambin	FR [q2] [30h+15h] [5 Credits] 🌐	X	X
⊗ LPHYS1113	Mechanics 2		FR [q2] [30h+25h] [5 Credits] 🌐	X	X




⊗ Cours de mathématiques

Maximum 15 credit(s)

				Year	
				2	3
⌘ LMAT1323	Topology	Pedro Dos Santos Santana Forte Vaz	FR [q1] [30h+15h] [5 Credits]  > English-friendly	x	x
⌘ LMAT1361	Galois Theory	Pierre-Emmanuel Caprace	FR [q2] [30h+15h] [5 Credits] 	x	x
⌘ LMAT2170	History and epistemology of mathematics	Pierre Bieliavsky Pierre-Emmanuel Caprace Marino Gran Jean Van Schafingen	FR [q2] [30h+15h] [5 Credits] 	x	x
⌘ LMAT1236	Introduction to logic: set theory		FR [q2] [30h+15h] [5 Credits]   > English-friendly	x	x
⌘ LMAT1237	Introduction to logic: model theory	Enrico Vitale	FR [q2] [30h+15h] [5 Credits]   > English-friendly	x	x
⌘ LINMA1691	Discrete mathematics - Graph theory and algorithms	Vincent Blondel Jean-Charles Delvenne	FR [q1] [30h+22.5h] [5 Credits] 	x	x

⌘ Statistique et informatique

Maximum 10 credit(s)

⌘ LPSP1209	Statistics, inference on one or two variables		FR [q1] [22.5h+15h] [4 Credits] 	x	x
⌘ LINFO1103	Introduction to algorithms	Pierre Dupont	FR [q2] [30h+30h] [5 Credits] 	x	x
⌘ LINFO1123	Calculability and Complexity [M]		FR [q2] [30h+30h] [5 Credits] 	x	x

THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies 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.

APPENSMAT - Information

Access Requirements

This minor is open only to students enrolled in the [Bachelor in 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 education completes the training of students with a bachelor's degree in mathematical sciences, and gives access to all the master's degrees available after this bachelor's degree, including the master's degree in mathematics education.

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 Schaftingen](#)

Useful Contact(s)

- Study advisor: [Pierre Bieliavsky](#)
- Administrative manager for the student's annual program: [Nathalie Micha](#)

