

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

- 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.).

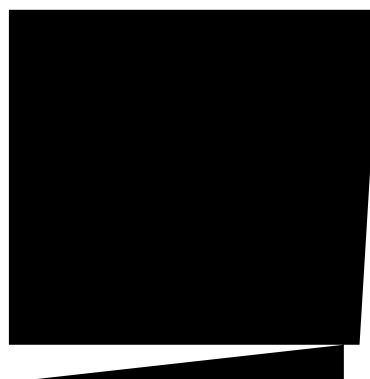
APPMATH - Teaching profile

Optimization models and methods I

| | | | |
|------------|---|---|---|
| ⊗ LMAT2440 | Number theory | Pierre-Emmanuel Caprace Olivier Pereira | EB [q2] [30h+15h] [5 Credits] > English-friendly |
| ⊗ LMAT2170 | History and epistemology of mathematics | Pierre Bieliavsky Pierre-Emmanuel Caprace Marino Gran Jean Van Schaftingen | EB [q2] [30h+15h] [5 Credits] |

⊗ Mathématiques appliquées et informatique

| | | | |
|-------------|--|---|--|
| ⊗ LMAT2450 | Cryptography | Olivier Pereira | EB [q1] [30h+15h] [5 Credits] > French-friendly |
| ⊗ LMAT2460 | Finite mathematics and combinatorial structures | Jean-Charles Delvenne Raphaël Jungers | EB [q1] [30h] [5 Credits] |
| ⊗ LEPL1110 | Finished elements | Vincent Legat Jean-François Remacle | EB [q2] [30h+30h] [5 Credits] |
| ⊗ LINMA1170 | Numerical analysis | Jean-François Remacle | EB [q2] [30h+22.5h] [5 Credits] |
| ⊗ LINMA1691 | Discrete mathematics - Graph theory and algorithms | Jean-Charles Delvenne Jean-Charles Delvenne (compensates Vincent Blondel) | EB [q1] [30h+22.5h] [5 Credits] |
| ⊗ LINMA1702 | Optimization models and methods I | François Glineur | EB [q2] [30h+22.5h] [5 Credits] |



| | | | | Year | |
|------------|---|---|---|------|---|
| | | | | 2 | 3 |
| ⊗ LEPL1804 | <p>Sustainable development and transition <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></p> | <p>David Bol David Bol (compensates Hervé Jeanmart) Patricia Luis Alconero Patricia Luis Alconero (compensates Hervé Jeanmart) Xavier Marichal Xavier Marichal (compensates Hervé Jeanmart) Jean-Pierre Raskin Jean-Pierre Raskin (compensates Hervé Jeanmart)</p> | <p>PK [q1] [22.5h+15h] [3 Credits] </p> | x | x |
| ⊗ LBIR2050 | <p>Challenges of sustainable development and transition <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></p> | <p>Valentin Couvreur Nathalie Delzenne Valérie Swaen (coord.)</p> | <p>PK [q2] [30h] [5 Credits] </p> | 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](#)

