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

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

Optimization models and methods I

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

⛒ Mathématiques appliquées et informatique

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

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x FR

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				Year 2	Year 3
[redacted]	stainable development and transition *s unités d'enseignement LEPL1804 et LBIR2050 ne nt pas cumulables: si l'étudiant a déjà suivi ou suit ne de ces 2 UEs, il ne peut pas s'inscrire à l'autre.*	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)	FR [q1] [22.5h+15h] [3 Credits]	x	x
⊠ LBIR2050	Challenges of sustainable development and transition *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.*	[redacted]			