

## 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 .....	3
Information .....	4
Access Requirements .....	4
Evaluation .....	4

## FILMAP - Introduction

### Introduction

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#### **Introduction**

The aim of this track is to enable the students to increase and improve their knowledge and skills in various fields of applied mathematics and to understand their basic concepts. More precisely this specialization trains the students in the design, analysis and implementation of mathematical models for engineering sciences in the industry, and in the elaboration of effective strategies to optimise their performance.

## FILMAP - Teaching profile

### Learning outcomes

### Programme

#### DETAILED PROGRAMME BY SUBJECT

- Mandatory
- ⊗ Optional
- △ Not offered in 2021-2022
- ⊖ Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- (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:

○ LINMA1315	<a href="#">Mathematical analysis : complements</a>	Pierre-Antoine Absil Jean Van Schaftingen	(FR) [q2] [30h+22.5h] [5 Credits]	x	
○ LINMA1702	<a href="#">Optimization models and methods I</a>	François Glineur	(FR) [q2] [30h+22.5h] [5 Credits]	x	
○ LINMA1170	<a href="#">Numerical analysis</a>	François Henrotte (compensates Jean-François Remacle) Jean-François Remacle	(FR) [q2] [30h+22.5h] [5 Credits]		x
○ LINMA1691	<a href="#">Discrete mathematics - Graph theory and algorithms</a>	Vincent Blondel Jean-Charles Delvenne	(FR) [q1] [30h+22.5h] [5 Credits]		x
○ LINMA1510	<a href="#">Linear Control</a>	Denis Dochain	(EN) [q1] [30h+30h] [5 Credits]		x
○ LINMA1731	<a href="#">Stochastic processes : Estimation and prediction</a>	Pierre-Antoine Absil Luc Vandendorpe	(EN) [q2] [30h+30h] [5 Credits]		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.

## FILMAP - Information

### Access Requirements

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### Evaluation

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***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".***

