

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

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## FILFYKI - Introduction

### Introduction

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#### Introduction

The aim of this track is to enable the students to build a broad knowledge skills base in applied chemistry and physics (including thermodynamics and kinetics) opening avenues to the main fields of chemical and environmental engineering, advanced materials engineering, as well as physical engineering. The acquired skills cover a wide range of physical scales, from atomic to macroscopic and industrial dimensions, and prepare to the professions of the engineering master in chemistry and materials science as well as the master in physical engineering (chemical and environmental engineering, sustainable chemistry and energy, nanotechnology, (nano)electronics, optics, advanced materials including biomaterials, sensors and transducers, etc.).

## FILFYKI - Teaching profile

### Learning outcomes

### 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:

● LMAPR1805	<a href="#">Introduction to materials science</a>		(FR) [q2] [30h+30h] [5 Credits] 🌐	X	
● LMECA1901	<a href="#">Continuum mechanics.</a>	Philippe Chatelain Issam Doghri	(FR) [q2] [30h+30h] [5 Credits] 🌐	X	
● LMAPR1491	<a href="#">Statistical &amp; quantum physics</a>		(FR) [q1] [30h+30h] [5 Credits] 🌐		X
● LMAPR1230	<a href="#">Organic chemistry</a>		(FR) [q1] [30h+30h] [5 Credits] 🌐		X
● LMAPR1400	<a href="#">Kinetics and thermodynamics</a>	Juray De Wilde Denis Mignon	(FR) [q2] [30h+30h] [5 Credits] 🌐		X
● LMAPR1492	<a href="#">Materials physics</a>		(FR) [q2] [37.5h+22.5h] [5 Credits] 🌐		X
● LFYKI1101	<a href="#">Chimie et physique appliquées – aspects technologiques</a> [C] <i>Ce cours sera suivi par les étudiants démarrant la filière FYKI en 25-26.</i>		(FR) [q2] [22.5h+30h] [5 Credits] 🌐		X
● LFYKI1102	<a href="#">Physique statistique et physique de l'état solide I</a> [C] <i>Ce cours sera suivi par les étudiants démarrant la filière FYKI en 25-26.</i>		(FR) [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.

## FILFYKI - Information

### Evaluation

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*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".*

