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## LMINOGBIO - Introduction

### Introduction

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#### Introduction

The aim of this track is initiating the students to the multidisciplinary field of biomedical engineering. First, this requires an introduction to the different disciplines of life sciences (biology, anatomy, biochemistry, etc.). Next, a familiarization with fundamental challenges from the different pillars of biomedical engineering will be provided (bioinstrumentation, biomaterials, biomechanics, artificial organs, medical imaging, biological systems modeling, etc.). The students will then be able to deploy these skills in order to solve basic problems in biomedical engineering.

## LMINOGBIO - Teaching profile

### Learning outcomes

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### Programme

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#### DETAILED PROGRAMME BY SUBJECT

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- 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:

○ LGBIO1111	<a href="#">Cell biology and physiology</a>	Charles De Smet Christophe De Vleeschouwer Pascal Kienlen-Campard	[FR] [q2] [30h+15h] [5 Credits]	x	
○ LGBIO1112	<a href="#">Introduction to biomedical engineering</a>	Philippe Lefèvre	[FR] [q2] [45h] [5 Credits]	x	
○ LGBIO1113	<a href="#">Systems Anatomy and Physiology</a>	Catherine Behets Wydemans Olivier Cornu Greet Kerckhofs	[FR] [q2] [30h+15h] [5 Credits]		x
○ LGBIO1114	<a href="#">Artificial organs and rehabilitation</a>	Luc-Marie Jacquet Philippe Lefèvre Renaud Ronsse	[FR] [q2] [30h+30h] [5 Credits] △		x
○ LGBIO1115	<a href="#">Introduction to Neuroscience</a>	Julie Duque (coord.) Aleksandar Jankovski Marcus Missal Sylvie Nozaradan (coord.)	[FR] [q2] [30h+30h] [5 Credits]		x
○ LBIR1250	<a href="#">Biochemistry I</a>	Michel Ghislain Yvan Larondelle (coord.)	[FR] [q1] [30h+15h] [5 Credits]		x

#### THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

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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.

## LMINOGBIO - 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".***

