



*UCL Study
programme
2024 - 2025*

Specialization track in Biomedical Engineering

Table of contents

Introduction	2
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FILGBIO - Introduction

Introduction

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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.

FILGBIO - Teaching profile

Learning outcomes

Programme

DETAILED PROGRAMME BY SUBJECT

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 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...)

30 crédits

Year

2 3

Content:

Le cours LINMA1510 étant commun aux filières GBIO et MAP, l'étudiant-e choisissant cette combinaison devra compléter son programme du premier quadrimestre du troisième bloc annuel par un cours de 5 crédits figurant dans la liste des cours des filières EPL mais ne figurant pas autrement à son programme GBIO-MAP.

● LGBIO1111	Cell biology and physiology	Charles De Smet Laurent Jacques Pascal Kienlen-Campard	(FR) [q2] [30h+15h] [5 Credits] 🌐	X
● LGBIO1112	Introduction to biomedical engineering	Benoit Delhaye (compensates) Philippe Lefèvre Sophie Demoustier (compensates) Philippe Lefèvre Greet Kerckhofs (compensates) Philippe Lefèvre	(FR) [q2] [45h] [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.

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