UCL Study programme 2023 - 2024

Specialization track in Biomedical Engineering

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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 2023-2024
- Not offered in 2023-2024 but offered the following year
- Offered in 2023-2024 but not the following year
- Not offered in 2023-2024 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

Content:

Le cours LINMA1510 étant commun aux filières GBIO et MAP, les étudiants choisissant cette combinaison devront compléter leur programme au 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 leur programme GBIO-MAP.

				Year 2	Year 3
LGBIO1111	Cell biology and physiology	Charles De Smet Christophe De Vleeschouwer Pascal Kienlen-Campard	FR [q2] [30h+15h] [5 Credits]	x	
LGBIO1112	Introduction to biomedical engineering	Philippe Lefèvre	FR [q2] [45h] [5 Credits]	x	
LGBIO1113	Systems Anatomy and Physiology	Catherine Behets Wydemans Olivier Cornu Greet Kerckhofs	FR [q2] [30h+15h] [5 Credits]		x
LGBIO1115	Introduction to Neuroscience	Julie Duque (coord.) Aleksandar Jankovski Marcus Missal Sylvie Nozaradan	FR [q2] [30h+30h] [5 Credits]		x
LBIR1250	Biochemistry I	Emeline Dierge (compensates Yvan Larondelle) Michel Ghislain Yvan Larondelle (coord.)	FR [q1] [30h+15h] [5 Credits]		x
LINMA1510	Linear Control	Gianluca Bianchin	EN [q1] [30h+30h] [5 Credits] *> French-friendly*		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.

FILGBIO - Information

Evaluation

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".