UCL Study programme 2020 - 2021

Specialization track in Biomedical Engineering

Table of contents

FILGBIO - Introduction

Introduction

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.

FILGBIO - Teaching profile

Learning outcomes

Detailled programme

PROGRAMME BY SUBJECT

- Mandatory
- Optional
- Courses not taught during 2020-2021
- Periodic courses not taught during 2020-2021
- Periodic courses taught during 2020-2021
- Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Content:

						Year 2	Year 3
LGBIO1111	Biologie et physiologie cellulaire	Charles De Smet Christophe De Vleeschouwer Pascal Kienlen-Campard	30h+15h	5 Credits	q2	x	
LGBIO1112	Introduction to biomedical engineering	Philippe Lefèvre	45h	5 Credits	q2	x	
LGBIO1113	Anatomie et physiologie des systèmes	Catherine Behets Wydemans Olivier Cornu Greet Kerckhofs	30h+15h	5 Credits	q1		x
LGBIO1114	Artificial organs and rehabilitation	Luc-Marie Jacquet Philippe Lefèvre Renaud Ronsse	30h+30h	5 Credits	q2		x
LGBIO1115	Introduction aux neurosciences	Julie Duque (coord.) Aleksandar Jankovski Marcus Missal Sylvie Nozaradan	30h+30h	5 Credits	q2		x
LBIR1250	Biochemistry I	Michel Ghislain Yvan Larondelle (coord.)	30h+15h	5 Credits	q1		x

COURSE PREREQUISITES

There are no prerequisites between course units (CUs) for this programme, i.e. the programme activity (course unit, CU) whose learning outcomes are to be certified and the corresponding credits awarded by the jury before registration in another CU.

THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a reference framework of learning outcomes specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document *"In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?"*

FILGBIO - Information

Access Requirements

Evaluation

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".