



BICL2MC - Introduction

Introduction

BICL2MC - Teaching profile

Learning outcomes

The specialist candidate assistant pharmacist (pharmacien assistant candidat spécialiste - PHACS) in clinical biology programme is spread over five years and prepares students for employment in a private or hospital biological analysis laboratory, with the emphasis on aspects of research in the field of clinical biology. This academic training is accompanied by the compulsory submission to the Ministry of Public Health of a 60-month work placement plan, in accordance with Belgian legal requirements, which confers entitlement to an authorisation to practise clinical biology in the field of medical chemistry, haematology and microbiology.

On successful completion of this programme, each student is able to :

1 Laboratory management

- 1.a Understand and update pre-analytical, analytical and post-analytical processes.
- 1.b Anticipate long-term technical developments.
- 1.c Supervise technical staff (schedule management, training, recruitment, assessment, education fees, etc.).
- 1.d Coordinate tasks within a group of biologists.
- 1.e Ensure the preparation and monitoring of and compliance with the budget of a clinical biology laboratory.

2 Quality management

- 2.a Ensure the quality of the results of biomedical analyses.
- 2.b Develop and monitor compliance with quality assurance procedures.
- 2.c Ensure the traceability of services.
- 2.d Interpret the results of internal and external quality checks and improve the laboratory's performance.
- 2.e Be familiar with and understand the different standards for the validation of analytical methods.

3 Sense of responsibility

- 3.a Prevent, correct and manage cases of non-compliance and errors likely to occur during the analytical processes.
- 3.b Monitor the analytical protocols carefully and critically; be able to detect and respond effectively to any abnormal or pathological result.

Additional training in human biology as well as training in sampling techniques are included in these first two years.

The candidate specialist will be required to attend or participate in didactic and scientific activities, as indicated by the Commission.

During their studies, specialist candidates participate in the guards assigned to them.

During full-time internships in the three areas of clinical biology for a minimum of 6 months for each of them, theoretical and practical lessons are given simultaneously. Their distribution between the different blocks of the specialization is shown below.

In addition to the basic training, the candidate specialist continues with three years of training corresponding to the "higher education" provided for in the appendix to the Royal Decree of 3-9-84. All internships must be carried out with internship supervisors approved for this purpose by the Ministry of Public Health, and in approved internship services.

The higher education is dedicated to:

either for three years in one of the three areas of clinical biology;

or for three years in addition to two or three areas of clinical biology, the higher education in each of these branches not being able to be less than one year.

BICL2MC Programme

Detailed programme by subject

CORE COURSES

Le Master complémentaire en biologie clinique est un programme en 5 ans. Nous rencontrons actuellement un problème pour l'affichage ci-dessous de la cinquième année (cinquième colonne).

- 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...)

Year
1 2 3 4 5

● Premier bloc annuel (60 credits)

● WBCMM2301	Formation universitaire spécifique en biologie clinique 1re année	Hector Rodriguez-Villalobos (coord.)	FR [q1] [35h] [4 Credits] 🌐	X					
● WBCMM22041	Séminaires de biologie clinique post gradués, 1re année		FR [q2] [8h] [2 Credits] 🌐	X					
● WBICL2100	Further Development in Clinical Chemistry	Lidvine Boland Joseph Dewulf Catherine Fillee Damien Gruson (coord.) Vincent Haufroid Diane Maisin Vincent Van Pesch	FR [q1] [50h] [4 Credits] 🌐	X					
● WBICL2107	Principe et méthodologie des dosages immunologiques	Diane Maisin	FR [q2] [15h] [2 Credits] 🌐	X					
● WBICL2105	Apports de la biologie au diagnostic des principales maladies endocriniennes	Orsalia Alexopoulou Damien Gruson (coord.)	FR [q1] [22.5h] [2 Credits] 🌐	X					
● WFARM2502	Introduction to analytical toxicology	Laure Bindels (coord.) Lidvine Boland (coord.)	FR [q2] [22.5h] [2 Credits] 🌐	X					

WMDS2221



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.

Evaluation
