

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.
- 3.c Integrate the various available medical data in order to validate the biological results produced by the laboratory.
- 3.d Take responsibility for decision-making

4 Communication

- 4.a Collaborate and communicate with other healthcare providers, particularly with the clinicians who are responsible for the patient.
- 4.b Manage internal and external disputes (complaints, claims, etc.) .
- 4.c Ensure the transmission of information within and outside the laboratory (new techniques, new analyses, etc.).
- 4.d Attend multidisciplinary clinical meetings.
- 4.e Read a scientific article from a critical perspective and understand the principles of evidence-based medicine

5 Ability to convey knowledge

- 5.a Write a scientific article (French/English).
- 5.b Present a scientific communication (French/English) in the field of clinical biology or another area of medicine .
- 5.c Provide training within or outside the laboratory.
- 5.d

Communicate as an expert-consultant with regard to other medical specialities

6 Ability to rapidly master a new area of expertise

- 6.a Apply their knowledge and skills in a new context .
- 6.b Familiarise themselves with and understand new technologies.

7 Mobility

- 7.a Be sufficiently independent to travel in Belgium and abroad.

Programme structure

The "basic training" (also called "common core") of this program includes 2 years. Each year is sanctioned by a test. Admission to the 2nd annual block requires the complete success of the 1st annual block.

The basic training of the specialist candidate in clinical biology is versatile: it includes theoretical and practical teaching supplemented by supervised internships in each of the three areas of clinical biology: medical chemistry (including hormonology, toxicology and monitoring therapy), microbiology (bacteriology, mycology, parasitology, virology) and hematology (including coagulation, hemostasis, cytology and blood banking). Applications of immunology in these three areas are also included.

				Year				
				1	2	3	4	5
<p>○ WMDS2221</p>	<p>Secteur hématologie</p>	<p>Marc André Bénédicte Brichard Véronique Deneys Cédric Hermans Catherine Lambert Nicole Straetmans (coord.) Marie-Christiane Vekemans</p>	<p>PR [q1] [48h] [4 Credits]</p>	x				
<p>○ WBCMM2201</p>	<p>Hémopathies : de l'hémogramme à la moléculaire. Approche biologique multidisciplinaire.</p>							

BICL2MC - Information

Access Requirements

*In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.
Decree of 7 November 2013 defining the landscape of higher education and the academic organization of studies.
The admission requirements must be met prior to enrolment in the University.*

Unless explicitly mentioned, the bachelor's, master's and licentiate degrees listed on this page are to be understood as those issued by an institution of the French, Flemish or German-speaking Community, or by the Royal Military Academy.

In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.

SUMMARY

- [General access requirements](#)
- [Specific access requirements](#)

General access requirements

Translated from https://www.gallilex.cfwb.be/fr/leg_res_01.php?ncda=39681&referant=l02

Art. 112. of the "Décret définissant le paysage de l'enseignement supérieur et l'organisation académique des études" :

§ 1. In accordance with the general requirements established by the academic authorities, students who have:

1. a master's degree;
2. an academic degree similar to the one mentioned in the preceding paragraph awarded by a higher education institution in the Flemish Community or the German-speaking Community, or by the Royal Military Academy, by virtue of a decision of the academic authorities and in accordance with any additional requirements they may establish;
3. a foreign academic degree deemed equivalent to the one mentioned in paragraph 1, in accordance with this Decree, a European directive, an international convention or other legislation, in accordance with the same requirements.

The additional admission requirements referred to in paragraph 2 are intended to ensure that the student has acquired the knowledge and skills required for the studies in question. When the additional admission requirements consist of one or more additional course units, these may not represent more than 60 additional credits for the student, taking into account all the credits that he or she may otherwise use for admission. These course units are part of the student's study programme.

§ 2. In accordance with the general requirements established by the academic authorities, a student who holds a title, diploma, degree or certificate of higher education, in the French Community or outside it, which does not grant him or her eligibility for admission to a specialised master's course by virtue of the preceding paragraph, may nevertheless be admitted by the jury of the course in question, in accordance with the additional requirements that it establishes, if the totality of the higher education that he or she has completed or the expertise that he or she has acquired is valued by the jury to be at least 240 credits.

§ 3. By way of derogation from these general requirements, the academic authorities may also admit to a specialised master's course holders of a title, diploma, degree or certificate awarded outside the French Community which, in that system of origin, grants direct eligibility for postgraduate studies, even if the studies sanctioned by these credentials are not organised into distinct degree courses or within a time period of at least five years.

Specific access requirements

Specific Admission Requirements

L'admission est conditionnée à deux critères :

- la possession d'un diplôme belge ou européen de master en Sciences Pharmaceutiques,
- la sélection lors du concours organisé par la commission d'enseignement de la biologie clinique de l'école de pharmacie.

Toute demande doit être introduite au secrétariat de l'école de pharmacie avec dossier complet (incluant un relevé intégral des résultats académiques du candidat, un curriculum vitae complet et une lettre de candidature et de motivation) au plus tard durant le mois de mai précédant l'année académique sollicitée. Une sélection sera opérée par un Concours organisé au début du mois de juillet. En fonction du nombre de dossier reçus, une première pré-sélection pourra être établie par le jury dans le but de limiter le nombre de candidats invités à se présenter au Concours. Le jury attire l'attention des candidats sur le fait que la maîtrise du français est indispensable pour pouvoir suivre les formations avec fruit. Le nombre de mandats rémunérés est limité. Le jury reste souverain dans les décisions.

Les candidats étudiants non francophones devront apporter la preuve, dans leur demande d'admission, d'une maîtrise suffisante de la langue française (niveau B1 du [Cadre européen commun de référence](#) , pages 24 à 29)

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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".

Contacts

Curriculum Management

Faculty

Structure entity

Denomination

Sector

Acronym

SSS/FASB

Faculty of Pharmacy and Biomedical Sciences ([FASB](#))

Health Sciences ([SSS](#))

FASB

