UCLouvain

FARI2MC

2020 - 2021

Advanced Master in Industrial Pharmacy

At Bruxelles Woluwe - 60 credits - 1 year - Day schedule - In French
Dissertation/Graduation Project : **YES** - Internship : **YES**
Activities in English: **YES** - Activities in other languages : **NO**
Activities on other sites : **NO**
Main study domain : **Sciences biomédicales et pharmaceutiques**
Organized by: **Faculty of Pharmacy and Biomedical Sciences (FASB)**
Programme acronym: **FARI2MC** - Francophone Certification Framework: 7

Table of contents

FARI2MC - Introduction

Introduction

FARI2MC - Teaching profile

Learning outcomes

The Advanced Master degree in Industrial Pharmacy gives the student all theoretical and practical knowledge to work in the following fields: production, drug quality control and analysis and in the drug approval process, marketing and pharmacovigilance.

This programme comprises theory and practical work in a field chosen by the student (pharmaceutical industry or other bodies or laboratories where the skills of a pharmacist are needed).

The Advanced Master degree in Industrial Pharmacy is the only way to obtain the title of Qualified person (law of the 14th December 2006 regarding drugs used in humans and animals, article 84). For the pharmacist or owners of a degree endowed with equivalent skills, to obtain this title recognized by the Ministry of Health, the Advanced Master degree must be completed by a 6 months experience in one or more pharmaceutical firm(s) owner of an authorization of drug production according to the rules comprised in the Royal decree of the 14th August 1989.

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

1 To master and integrate relevant knowledge in all questions regarding the pharmaceutical industry

1.a to tackle, analyze and work with organic, inorganic, natural, biotechnologically produced substances and radiopharmaceuticals.
1.b to assess pharmacological data and pharmacokinetics related to biologically active compounds.
1.c to engineer a pharmaceutical form with the required physic-chemical characteristics.
1.d to collaborate in the realization of a clinical study.
1.e to understand intellectual property .
1.h to release a batch for the drug market.
1.i to solve problems linked to drug production.

2 Scientific approach

2.a To integrate and analyze with criticism different scientific approaches to the design, development, production and marketing of the product.
2.b To be able to plan scientific experiments, to draw statistically valid conclusions and, if necessary, to modify the plan to get the best results.
2.c Intégrer les lois et règlements en vigueur afin de fabriquer, distribuer et commercialiser les médicaments sur les marchés, belge, européen et étranger.

3 To communicate professionally and adapt the message to different people

3.a to be able to present scientific results.
3.b to communicate in English, the main language in scientific communication in the world.
3.c to deliver a message or clear and specific guidelines to be implemented within the framework of scientific and administrative work.

4 Sense of responsibility

4.a To assume responsibilities in accordance with ethics, laws and best practice.
4.b To stay abreast of new rules and laws issued by various national and international bodies in charge of health.
4.c To be able to manage and lead a group of people, to assign them tasks in the context of scientific and administrative work and checking if the guidelines or procedures have been properly applied.

5 To evaluate, to assess themselves, to update knowledge and continually improve their practice

5.a by training.
5.b by attending scientific conferences.

Programme structure

The duration of the studies and the training programme is one year, full-time. On the recommendation of the Industrial Pharmacist Management Committee, the study programme can be spread over two academic years, subject to the authorisation of the President of the School of Pharmacy in the case where the student is professionally active elsewhere or if his particular situation is considered to justify this.

The programme comprises **2 parts** :

• the first part is made up of a core syllabus organised by the three universities. This core syllabus is divided into 7 modules (A to G), each including theoretical sessions as well as seminars. The total timetable volume of this core syllabus amounts to 450 hours (45 ECTS), with each university taking in charge one third, or 150 hours of the programme.

• the second part consists of an individual piece of work that the student will prepare during the course of a 12 week training period of work experience carried out in one or several departments, either in one of the universities, or in a pharmaceutical industry proposed by the programme management committee, or yet again in the context of an inter-university SOCRATES/ERASMUS exchange scheme. The total timetable volume of this second part amounts to 150 hours (15 ECTS).

> Core courses *[en-prog-2020-fari2mc-tronc_commun]*

FARI2MC Detailled programme

Programme by subject

CORE COURSES [60.0]

O 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...)

O Mandatory modules (45 credits)

L'ensemble des informations sur les enseignements est visible en cliquant les intitulés des cours.

O WFARI2100	Active molecules *Thème abordé par l'UCL : Substances d'origine naturelle, partim a, 5h, LECLERCQ JoëIle.*	Joëlle Leclercq	50h	6 Credits	q2
O WFARI2101	Aspects cliniques *Thème abordé par l'UCL : Métabolisme des médicaments et paramètres pharmacocinétiques, 20h, MATHY François-Xavier.*	François-Xavier Mathy	45h	6 Credits	q1
O WFARI2102	Assurance de qualité et management pharmaceutique *Thèmes abordés par l'UCL : - Assurance qualité, partim a: Concepts de base et organisation de l'assurance qualité, 20h, PRONCE Thierry. - Assurance qualité, partim b : Approche de qualification et de validation et analyse de risques, 7,5h, MARCELIS Xavier. Anglais appliqué à l'industrie pharmaceutique, 20h, POUPAERT Jacques et SERBEST Nevin.*	Xavier Marcelis (coord.) Thierry Pronce	65h	7 Credits	q2
O WFARI2103	Technologie pharmaceutique *Thème abordé par l'UCL : Production industrielle des biomolécules, 15h, VANBEVER Rita.*	Rita Vanbever	70h	8 Credits	q2
O WFARI2104	Analyse des médicaments *Thème abordé par l'UCL : Méthodes statistiques appliquées à l'industrie pharmaceutique, 15h, ELENS Laure.*	Laure Elens	65h	7 Credits	q2
O WFARI2105	Affaires réglementaires et environnement médico-social *Thème abordé par l'UCL : Législation et procédures appliquées à l'industrie pharmaceutique, partim a législation, 10h-5h, DRUEZ Catherine.*	Catherine Druez	80h	8 Credits	q1
O WFARI2106	Visites et séminaires organisés dans les industries pharmaceutiques	Joëlle Leclercq	75h	3 Credits	q2

O Travail de fin d'études réalisé dans le cadre d'un stage dans l'industrie pharmaceutique (15 credits)

Coord. pour l'UCL : J. Leclercq.

O WFARI2109	Mémoire (dans le cadre d'un stage de 12 semaines)			15 Credits	

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?"*

FARI2MC - 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.

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SUMMARY

General access requirements

Subject to the general requirements laid down by the academic authorities, admission to the specialized Master's degree programme will be granted to students who fulfil the entry requirements for studies leading to the award of a Master's (second-cycle) degree and who hold a second-cycle diploma, degree, certificate or other qualification issued within or outside the French Community of Belgium, or whose prior learning or experience has been accredited by the Examination Board as being equivalent to at least 300 credits.

Specific access requirements

Specific Admission Requirements

This programme is accessible to pharmacists holding a diploma from the French-speaking Community in Belgium or a recognised equivalent.

Admission procedure

Enrolments are made at the university chosen by the student who pays the corresponding fee in the institution of his choice. The degree is awarded by this same institution. Applications for admission should be addressed to the secretary's office of the School of Pharmacy, by means of a special form issued by the latter. Applications are examined by the Admission Committee for complementary masters (3rd cycle) and then by the Programme Management Committee. Notice of refusal is given to the applicant by the academic secretary.

Teaching method

The lessons are divided into modules.

The methods used are both theoretical and practical.

Students will attend lectures given by teachers from the partner universities as well as professionals from the pharmaceutical industry or the Federal Public Service of Public Health. Mandatory related activities are organized: visits to companies or laboratories and exercises.

Students will complete an internship in a company, laboratory or a public body whoseactivities are related to drugs and legislation. It will prepare a report on the activities carried out during the course. This report will be presented to a jury composed of three scientists from each of the partner universities.

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".

Student evaluation on the inter-university programme content will consist of a single oral session of exams per module (from A to F, described above).
An oral defence of the individual piece of work will also be organised and evaluated by an inter-university jury. In order to obtain official recognition by the Ministry of Public Health for the title "person responsible for the conformity of medication products by a pharmaceutical firm", the pharmacist who has obtained his inter-university degree as an industrial pharmacist is obliged to do a 6 months complementary apprenticeship in a pharmaceutical firm in accordance with the
procedures laid down by the Royal Decree of 14 August, 1989.

Contacts

Curriculum Management

Faculty

Structure entity	SSS/FASB
Denomination	Faculty of Pharmacy and Biomedical Sciences (FASB)
Sector	Health Sciences (SSS)
Acronym	FASB
Postal address	Avenue Mounier 73 - bte B1.73.02 1200 Woluwe-Saint-Lambert

Mandate(s)

- Dean : Emmanuel Hermans

Commission(s) of programme

- Ecole de pharmacie (FARM)

Other academic Supervisor(s)

- Guillaume Arnould
- Joëlle Quetin-Leclercq

Jury

- President - 02/650.52.15: Jean-Michel.Kauffmann@ulb.ac.be
- Secretary - Tel: 02/650.52.35: dufrasne@ulb.ac.be