

At Bruxelles Woluwe - 120 credits - 2 years - Day schedule - In French
Dissertation/Graduation Project : **YES**

FARM2M - Introduction

Introduction

FARM2M - Teaching profile

Learning outcomes

As actors in the field of health sciences, pharmacists are experts on the subject of medication.

From design to production, from pharmaceutical research to marketing the product, from collating information to distributing it, pharmacy graduates are preparing for employment as pharmacists in a number of professional environments, at each stage of the medication process.

This Master's programme is designed to produce health professionals in such diverse environments as the pharmacy (dispensary) open to the public, the academic world, hospitals or industry. This diversity is based on a solid scientific framework which ultimately seeks to improve patient health.

The training offered by the School of Pharmacy relies on the combined expertise of instructors who are researchers and instructors who are practitioners. It provides students with a number of opportunities to develop their know-how and their ability to master the various roles of the modern pharmacist: laboratories, work placements, research projects and classes are all included in the two years of the Master's programme.

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

1. Pharmaceutical expertise: display command of and assimilate the knowledge required to formulate a pertinent response to any pharmaceutical question

1a. Display command of and apply the fundamental principles and essential concepts of the basic sciences in the practice of pharmacy.

1b. Assimilate a specialised knowledge base in chemistry, pharmacognosy, pharmacology, toxicology and galenic pharmacy useful in the synthesis, design, formulation, evaluation, dispensing and control of medicinal drugs.

1c. Assimilate and use a detailed knowledge base in nutrition, pathology, pharmacotherapy, therapeutics and semiology in order to understand patients in all their complexity.

2. In the preparation and dispensing of medications: act in an appropriate and responsible manner in line with procedures

2a. Dispense medications in a responsible manner in order to achieve general health objectives such as the prevention, identification and treatment of problems related to the use of medications, in collaboration with other health professionals and the patient.

2b. Select an appropriate response and apply a solution in their professional practice, in particular to

- formulate, produce and control a medication

- develop a pharmaceutical care plan *

2c. Comply with the legal, ethical and deontological requirements so as to act in a responsible and professional manner for the patient and society.

2d. Be the first responder in an emergency situation.

3. Health advice: offer appropriate advice when dispensing medicine and monitor progress

3a. Evaluate the situation taking into consideration elements related to the patient, scientific and medical aspects and socio-economic factors.

3b. Monitor the selected response and apply any necessary modifications.

3c. Collect and communicate information relating to the safety of use of the medication (pharmacovigilance).

3d. Operate as part of a multidisciplinary team.

4. Communication: communicate in a professional manner and tailor the message to suit different audiences

4a. Converse effectively and respectfully, demonstrating active listening and empathy in their relationships with patients.

4b. Tailor their communication to the target audience in order to obtain and provide clear information.

4c. Use information and communication technologies appropriately with regard to their professional practice.

4d. Respect confidentiality in their professional practice.

5. Scientific approach: resolve health-related problems by incorporating and analysing, in a critical manner, different scientific approaches

5a. Understand a complex pharmaceutical problem or issue.

5b. Summarise the key and necessary elements related to the problem or issue concerned.

5c. Display command of the relevant and pertinent tools and sources of information related to the problem or issue concerned.

5d. Analyse, understand and compare specialised information in a critical and expert manner.

5e. Select an appropriate response and apply a solution in their professional practice, in particular to design and validate an experimental protocol.

6. Sense of responsibility: act in an ethical and responsible manner

6a. Incorporate a knowledge base of ethics, legislation, deontology and pharmaco-economics.

6b. Conduct themselves as key and responsible actors, with public health issues a priority concern.

6c. Identify the competent professional to whom a request outside the scope of their activities should be transferred.

7. Quality: evaluate, self-assess and update their knowledge and improve their practice

7a. Develop a self-assessment approach to define their training needs in order to respond to complex situations.

7b. Identify and utilise individual and collective lifelong learning tools in an independent, critical and robust manner.

7c. Update and expand their knowledge base and skills independently to ensure that their knowledge and practices are constantly improved.

7d. Evaluate the work of colleagues to contribute to the improvement of knowledge and practices.

LIST OF FOCUSES

- > [Research Focus](#) [en-prog-2024-farm2m-wfarm200a]
- > [Professional Focus](#) [en-prog-2024-farm2m-wfarm201s]

RESEARCH FOCUS [30.0]

- Mandatory
 - ✘ Optional
 - △ Not offered in 2024-2025
 - ⊖ Not offered in 2024-2025 but offered the following year
- Not offered in 2024-20211125 TJ ET Q q 1 0 0 1 20 160.721 cm q 6 0 0 -6 71 46955 cm /lm4 Do Q 0 g BT /F1 6.9-5499992 Tm farm201s]
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o Content:

○ WFARM2135	Seminary and practical exercises integred of pharmaceutical sciences	Anne des Rieux Laure Elens Raphaël Frédéric Giulio Muccioli (coord.)	EB [q1+q2] [0h+160h] [9 Credits]	X	
○ WFARM2196	Rational therapeutic choices (introduction to evidence-based medicine and pharmacoconomy)	Nathalie Dujardin Séverine Henrard Anne Spinewine (coord.)	EB [q1] [30h+10h] [4 Credits]	X	
○ WFARM2134	Gestion des situations aigües	Pierre Bulpa (coord.) Maximilien Gourdin Patrick Honoré Henri Thonon	EB [q2] [15h] [2 Credits]	X	
○ WFARM2235	PRACTICAL TRAINING IN PHARMACEUTICAL TECHNOLOGY	Anne des Rieux	EB [q1] [0h+120h] [5 Credits]		X
○ WFARM2211	Integrated pharmacotherapy seminars	Olivia Dalleur Chantal Dessy Nathalie Dujardin Emmanuel Hermans Muriel Rocour Françoise Van Bambeke (coord.)	EB [q1+q2] [0h+22.5h] [2 Credits] > English-friendly		X
○ WFARM2259	Séminaire d'intégration pharmaceutique (finalité spécialisée)	Mireille Al Houayek Patrice Cani Olivia Dalleur Nathalie Delzenne Anne des Rieux Olivier Feron Bernard Gallez Emmanuel Hermans (coord.) Joseph Lorent Giulio Muccioli Rita Vanbever	EB [q2] [40h] [8 Credits] > English-friendly		X

OPTION INNOVATION ET CONCEPTION DU MÉDICAMENT [16.0]

En envisageant les premiers stades de développement du médicament, depuis sa découverte jusqu'aux étapes de recherche préclinique, cette option met l'accent sur la conception des futurs nouveaux médicaments dans les laboratoires de recherche.

- 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

o Contant:**o Cours obligatoires (10 credits)**

○ WFARM2128	Processus de découverte, de développement et de mise sur le marché du médicament	Mireille Al Houayek (compensates) Laure Bindels Raphaël Frédéric Séverine Henrard Philippe Jacqmin Didier Lambert Françoise Van Bambeke (coord.)	FR [q2] [30h+15h] [3 Credits] 🌐 > English-friendly	X
○ WFARM2515	Pharmacologie moléculaire	Mireille Al Houayek Emmanuel Hermans (coord.) Joseph Lorent Pierre Sonveaux	FR [q1] [22.5h] [3 Credits] 🌐 > English-friendly	X
○ WFARM2210	Contact en milieu professionnel (stage 1 mois)		FR [q1] [] [4 Credits] 🌐	X

o Cours au choix (6 credits)

L'étudiant choisit 2 cours dans la liste suivante. Avec l'accord du conseiller aux études, un autre cours pourrait être choisi mais la compatibilité horaire avec l'ensemble du programme pourrait ne pas être assurée.

⊗ WFARM2501	Chimie pharmaceutique avancée et drug design	Raphaël Frédéric Didier Lambert Giulio Muccioli (coord.)	FR [q2] [22.5h] [3 Credits] 🌐 > English-friendly	X
⊗ WFARM2508				

OPTION BIOPHARMACIE ET PHARMACOTOXICOLOGIE [16.0]

Au travers d'une formation complémentaire en pharmacocinétique et toxicologie, cette option vise à mieux connaître le destin du médicament dans l'organisme, ainsi qu'à mieux en comprendre l'éventuelle toxicité.

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 - ✘ 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
 - △ ⊕
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Supplementary classes

To access this Master, students must have a good command of certain subjects. If this is not the case, in the first annual block of their Masters programme, students must take supplementary classes chosen by the faculty to satisfy course prerequisites.

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

○ Supplementary classes

Maximum 60 credit(s)

○ WFARM1213	Human physiology and basics of physiopathology	Olivier Feron (coord.) Emmanuel Hermans Jean-Christophe Jonas (compensates) Mandy Grootaert	FR [q2] [60h] [6 Credits] 🌐 > English-friendly
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Diplômes équivalents au bachelier en sciences pharmaceutiques

[Access based on application](#)

Connaissance du français

Non university Bachelors

> Find out more about [links](#) to the university

Holders of a 2nd cycle University degree

Diploma	Special Requirements	Access	Remarks
"Licenciés"			
Pharmaciens		Direct access	
Médecins Bioingénieurs Dentistes Licenciés en sciences biomédicales Licenciés en chimie		Access based on application	
Masters			
Titre inconnu:lfarm2m		Direct access	

Direct access

Specific professional rules

These studies lead to a professional title subject to specific rules or restrictions on professional accreditation or establishment.

You will find the necessary legal information by [clicking here](#).

Teaching method

The teaching provided on the Master in Pharmacy programme is based on a variety of teaching methods enabling an integrated approach to the theory and practical aspects of the different disciplines relating to the professions of pharmacist and pharmaceutical researcher.

The theory classes are aimed at developing a specialised knowledge base in pharmacy using simple and complex practical examples of pharmaceutical problems. A number of compulsory and elective theory classes are also associated with a cross-functional activity integrating different disciplines by means of practical work in laboratories, seminars and case studies, during which the students become actively involved in their own learning.

Several teaching units invite the students to learn about pharmacy through individual or group work. The aim of such work is to develop skills in self-learning, summarising and communication. Another objective is to produce a thesis in which the students address, in a detailed and integrated manner, an original question related to one or more pharmaceutical fields, under the guidance of an expert in this area.

In the Research focus, the Master in Pharmacy teaching enables the students to work in a research laboratory or clinical pharmacy service, where they can discover the world of research through individual work based on experimentation and data analysis.

Germany (Saarbrücken) ; Spain (Alcala de Henares, Madrid, Santiago de Compostela) ; France (Lille and Lyon) ; Greece (Patra) ; Italy (Bologna, Parma, Pisa) ; Netherlands (Utrecht) ; Portugal (Coïmbra) ; United Kingdom (Bath).

Possible trainings at the end of the programme

Graduates of the Master in Pharmaceutical Sciences have access to the following training courses subject to any special conditions indicated therein (see these programs):

Advanced Masters :

Advanced Master in Clinical Biology

Advanced Master in Industrial Pharmacy

Advanced Master in Hospital Pharmacy

Doctoral programmes :

Doctorate in pharmacy

Doctorate in biomedical sciences

Certificates

University Certificate in pharmacy

University Certificate in pharmaceutical engineering and industrial technology

University Certificate in clinical pharmacy

University Certificate in radiopharmacy

Contacts

Curriculum Management

Entity

Structure entity

Denomination

Faculty

Sector

Acronym

Postal address

SSS/FASB/FARM

(FARM)

Faculty of Pharmacy and Biomedical Sciences (FASB)

Health Sciences (SSS)

FARM

Avenue Mounier 73 - bte B1.73.03

1200 Woluwe-Saint-Lambert

Tel: +32 (0)2 764 73 60

Academic supervisor: [Françoise Van Bambeke](#)

Jury

- Président du jury d'examens Master: [Emmanuel Hermans](#)
- Secrétaire du jury d'examens Master: [Olivier Feron](#)

Useful Contact(s)

- Conseiller aux études: [Marie-France Herent](#)
- Contact: secretariat-farm@uclouvain.be

