



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.

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.

Programme structure

The programme (120 credits) comprises core subjects (74 credits), a focus (30 credits) and an option course (16 credits).

Apart from the core subjects which are compulsory for everyone, students may choose :

- a focus : either the professional focus which provides training for professional pharmacists, or the research focus which is theoretical and practical training for research in pharmacy. The two focuses enable students to gain the professional status of pharmacist.

- one option course from the following five :

dispensing and pharmaceutical monitoring

innovation and design of drugs

production, checking and regulation

biopharmacy and pharmacotoxicology

research in pharmacy. This option course is only open to students doing the research focus.

The contents of the different parts of the programme are outlined below.

FARM2M Programme

Detailed programme by subject

CORE COURSES [74.0]

- 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...)

o Content:

○ WFARM2135	Seminary and practical exercises integred of pharmaceutical sciences	Anne des Rieux Laure Elens Raphaël Frédéric Giulio Muccioli (coord.)	PR [q1+q2] [0h+160h] [9 Credits] 	X	
○ WFARM2196	Rational therapeutic choices (Introduction to evidence-based medicine and pharmacoeconomy)	Nathalie Dujardin Séverine Henrard Anne Spinewine (coord.)	PR [q1] [30h+10h] [4 Credits] 	X	
○ WFARM2134	Gestion des situations aigües	Pierre Bulpa (coord.) Maximilien Gourdin Patrick Honoré Henri Thonon	PR [q2] [15h] [2 Credits] 	X	
○ WFARM2235					

o **Content:**

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

△

OPTION RECHERCHES EN SCIENCES PHARMACEUTIQUES [16.0]

Réservée aux étudiants en finalité approfondie, cette option comprend un enseignement spécifique en biostatistique ainsi qu'un large éventail de cours au choix permettant d'approfondir certains domaines des sciences pharmaceutiques en rapport direct avec le projet de recherche.

- Mandatory
- ✘ Optional
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- ⊖ 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

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o Content:

o Cours obligatoire (16 credits)

● WFARM2177	Biostatistics	Laure Elens	FR [q2] [20h+10h] [3 Credits] 🌐	X
● WFARM2175	Etude critique d'un article de recherche en sciences pharmaceutiques	Olivia Dalleur Anne des Rieux Amandine Everard Raphaël Frédéric Bernard Gallez (coord.) Bénédicte Jordan Giulio Muccioli Pierre Sonveaux Françoise Van Bambeke Rita Vanbever	FR [q2] [40h] [4 Credits] 🌐 > English-friendly	X
● WFARM2275	Exercice de communication scientifique ■	Olivia Dalleur Anne des Rieux Amandine Everard Raphaël Frédéric Bernard Gallez (coord.) Bénédicte Jordan Giulio Muccioli Pierre Sonveaux Françoise Van Bambeke Rita Vanbever	FR [q1] [30h] [2 Credits] 🌐 > English-friendly	X
● WFARM2286	Démarche expérimentale en recherche pharmaceutique ■		FR [q2] [] [7 Credits] 🌐 > English-friendly	X

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
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- Activity with requisites
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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
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Course prerequisites

The **table** below lists the activities (course units, or CUs) for which there are one or more prerequisites within the programme, i.e. the

FARM2M - Information

Access Requirements

Master course admission requirements are defined by the French Community of Belgium Decree of 7 November 2013 defining the higher education landscape and the academic organisation of courses.

General and specific admission requirements for this programme must be satisfied at the time of enrolling at the university.

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		Access based on application	
Bioingénieurs			
Dentistes			
Licenciés en sciences biomédicales			
Licenciés en chimie			
Masters			
Titre inconnu:lfarm2m		Direct access	
		Access with additional training	
Titre inconnu:lsbim2m		Access based on application	
Titre inconnu:lmed2m			
Titre inconnu:ldent2m			
Titre inconnu:lchim2m			
Titre inconnu:lbirc2m			
		Access based on application	

Holders of a non-University 2nd cycle degree

Access based on validation of professional experience

> It is possible, under certain conditions, to use one's personal and professional experience to enter a university course without having the required qualifications. However, validation of prior experience does not automatically apply to all courses. Find out more about [Validation of priori experience](#).

Access based on application

Access based on application : access may be granted either directly or on the condition of completing additional courses of a maximum of 60 ECTS credits, or refused.

Admission and Enrolment Procedures for general registration

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.

The training also includes a 6-month work placement in a dispensary, enabling the students to learn about the profession on their own and under the guidance of a pharmacist. An orientation placement, also compulsory, enables them to discover the other facets of the pharmacist's profession in society.

The theory-based and practical training involves pharmacy experts throughout the academic programme. This specialist supervision ensures a balance between the expected learning outcomes and current expectations of society in the field of pharmacy.

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".

Each course is subject to one or more evaluations, in the form of written and/or oral exams, organised in two main sessions: one in January and the other in June. The September session is a re-sit opportunity.

The specific details of the exam are communicated to the students at the start of each course. These evaluations are intended to assess the learning outcomes defined in the course objectives. With regard to the practical elements of the training (practicals, seminars and projects), the evaluation is ongoing and may include a final assessment. It places the emphasis on expertise in the fields of health science and pharmacy and on the students' ability to tackle a pharmaceutical problem using a scientific approach.

The evaluation of certain seminars and work is aimed at appraising the incorporation of the different pharmacy disciplines by the students. Finally, the Master's programme culminates in an integrated interdisciplinary oral exam in which the student has to analyse a prescription for one or more medications from various pharmaceutical perspectives (in particular: chemistry, galenics and pharmacology).

To obtain the average, the marks obtained for the teaching units are weighted by their respective credits.

Mobility and/or Internationalisation outlook

Apart from studying for a whole year at another university (mainly Erasmus scheme) the option courses (all or some) or certain placements and/or research seminars may be replaced by a placement abroad (Erasmus scheme or similar).

The course on Health Economics and Pharmacoeconomics (2 credits) is a new course developed in partnership with KULeuven and is to be held partly at both sites.

The different option courses are accessible to bachelors in pharmacy from other Belgian or foreign as well as bachelors from other schools and faculties at UCL or other Belgian or foreign universities, subject to the agreement from the admission committee (delphine.delhaye@uclouvain.be). The whole, or part of, the study programme for the Master in Pharmacy is open to foreign students under the Erasmus exchange scheme or other equivalents, subject to the agreement of the Erasmus coordinator (veronique.preat@uclouvain.be).

The Pharmacy School has ERASMUS agreements with the following universities :

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

