



FARM1BA - Introduction

Introduction

FARM1BA - Teaching profile

Learning outcomes

Students enrolled on the the Bachelor in Pharmacy course are preparing for the training offered in the Master in Pharmacy programme, on completion of which they will achieve the title of pharmacist. The aim of the programme is therefore to help the students become medication specialists able to improve patient health.

The training in the first year of the Bachelor programme is based on an in-depth study of the basic sciences (chemistry, biology, physics, anatomy, etc.) used in the context of pharmacy.

In the second year, the pharmaceutical element increases significantly, in particular via the study of pharmacology, medicinal plants, and an introduction to analytical chemistry and the chemical synthesis of medications.

The final year of the Bachelor programme further reinforces the foundation in pharmacy and initiates students into a work environment (compulsory work placement in a field of the student's choice). The programme as a whole enables students to acquire a base of knowledge and expertise in the basic sciences, as well as specialist training in pharmacy.

During the three years of the Bachelor's course, by coming to a better understanding of the use of a medication and its effect on the body, the students will develop their training and professional projects, which they will pursue throughout the Master's programme, with increasing independence.

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

1. Demonstrate pharmaceutical expertise: use a body of concepts and knowledge in pharmacy and health

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

1b. Assimilate knowledge of chemistry, physicochemistry, biochemistry, pharmacognosy and pharmacology useful in the synthesis, design and analysis of medications.

1c. Incorporate knowledge of anatomy, physiology, immunology, microbiology, nutrition, pharmacology and pharmacokinetics, pathology, medical biology, semiology and psychology in order to understand the action of a medication on the body and plan its use.

2. Scientific approach: resolve pharmaceutical problems by using their knowledge and critical thinking

2a. Understand a defined pharmaceutical problem or issue.

2b. Display command of the relevant tools and sources of information related to the problem or issue concerned.

2c. Analyse, interpret and compare the information in a robust manner.

2d. Summarise the fundamental and necessary elements related to the problem or issue concerned.

2e. Implement an experiment protocol to formulate, produce and characterise a medication.

2f. Learn how to work in a team.

3. Communication: communicate in an effective, robust and respectful manner from a professional perspective

3a. Tailor the communication to obtain and provide clear, complete and accurate information (verbal and/or written) in accordance with the relevant standards, if necessary in another language.

3b. Use information and communication technologies appropriately.

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

4a. Observe the rules of safety and professional best practice in a scientific context.

4b. Adopt ethical values and comply with scientific and professional agreements.

4c. Understand and respect the limits of their remit.

4d. Conduct themselves as responsible actors in their areas of expertise.



				Year		
				1	2	3
WFARM1319	Pharmacognosy, case studies	Didier Lambert Joseph Lorent	PK [q2] [15h] [2 Credits] > English-friendly			x
WFARM1329	Advanced instrumental analysis	Marie-France Herent Giulio Muccioli (coord.)	PK [q2] [20h+10h] [2 Credits] > English-friendly			x
WFARM1339	Compléments de pharmacocinétique	Laure Elens	PK [q2] [15h] [2 Credits] > English-friendly			

o **Minor or additional module (30 credits)**

L'étudiant qui ne choisit pas l'approfondissement en sciences pharmaceutiques ou l'approfondissement en sciences pharmaceutiques -

List of available minors

During the bachelor's of Pharmaceutical Sciences, the student has the opportunity to further his knowledge in the various pharmaceutical domains, by selecting in-depth study options.

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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 programme CU for which the learning outcomes must be certified and the corresponding credits awarded by the jury before registering for that CU.

These activities are also identified in the **detailed programme**: their title is followed by a yellow square.

Prerequisites and student's annual programme

As the prerequisite is for CU registration purposes only, there are no prerequisites within a programme year. Prerequisites are defined between CUs of different years and therefore influence the order in which the student will be able to register for the programme's CUs.

In addition, when the jury validates a student's individual programme at the beginning of the year, it ensures its coherence, meaning that it may:

- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.
- transform a prerequisite into a corequisite if the student is in the final year of a degree course.

For more information, please consult the [Academic Regulations and Procedures](#).

Prerequisites list

- LANGL1855** "Anglais médical" has prerequisite(s) LANGL1854
- LANGL1854 - Medical English
- WFARM1212** "Éléments de physiologie générale" has prerequisite(s) WMD1120P ET WMD1006
- WMD1120P - General biology and an experimental approach to biology
 - WMD1006 - Cytology and general histology
- WFARM1213** "Physiologie des systèmes et éléments de physiopathologie" has prerequisite(s) WMD1120P ET WMD1006 ET WFARM1009
- WMD1120P - General biology and an experimental approach to biology
 - WMD1006 - Cytology and general histology
 - WFARM1009 - Elements of general and functional anatomy
- WFARM1219** "Biophysique appliquée aux médicaments" has prerequisite(s) WMD1102 ET WMD1104 ET WMD1105
- WMD1102 - Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)
 - WMD1104 - Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)
 - WMD1105 - Chimie générale et minérale
- WFARM1221** "Biochimie et biologie moléculaire" has prerequisite(s) WMD1106 ET WMD1120P
- WMD1106 - ORGANIC CHEMISTRY
 - WMD1120P - General biology and an experimental approach to biology
- WFARM1231** "Structure et stratégie de synthèse des médicaments" has prerequisite(s) WMD1105 ET WMD1106
- WMD1105 - Chimie générale et minérale
 - WMD1106 - ORGANIC CHEMISTRY
- WFARM1232** "Pharmacologie générale" has prerequisite(s) WMD1120P ET WMD1006
- WMD1120P - General biology and an experimental approach to biology
 - WMD1006 - Cytology and general histology
- WFARM1237** "Introduction botanique à la pharmacognosie" has prerequisite(s) WMD1120P
- WMD1120P - General biology and an experimental approach to biology
- WFARM1238** "Principes actifs d'origine naturelle" has prerequisite(s) WMD1120P
- WMD1120P - General biology and an experimental approach to biology
- WFARM1239** "Atelier informatique et de recherche bibliographique appliquée au médicament" has prerequisite(s) LANGL1854
- LANGL1854 - Medical English
- WFARM1243** "Introduction à la chimie analytique" has prerequisite(s) WMD1104 ET WMD1105 ET WMD1106 ET WFARM1003
- WMD1104 - Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)
 - WMD1105 - Chimie générale et minérale
 - WMD1106 - ORGANIC CHEMISTRY
 - WFARM1003 - Practicals of general chemistry approach
- WFARM1244** "Travaux pratiques d'introduction à la chimie analytique" has prerequisite(s) WMD1104 ET WMD1105 ET WMD1106 ET WFARM1003
- WMD1104 - Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)
 - WMD1105 - Chimie générale et minérale
 - WMD1106 - ORGANIC CHEMISTRY
 - WFARM1003 - Practicals of general chemistry approach
- WFARM1247** "Traitement statistique des données" has prerequisite(s) WMD1102
- WMD1102 - Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)
- WFARM1282** "Microbiologie générale" has prerequisite(s) WMD1120P
- WMD1120P - General biology and an experimental approach to biology
- WFARM1300** "Pharmacocinétique et métabolisme des xénobiotiques" has prerequisite(s) WFARM1221 ET WFARM1213

- WFARM1221 - [Biochemistry and molecular biology](#)
- WFARM1213 - [Human physiology and basics of physiopathology](#)

WFARM1302 "[Chimie pharmaceutique](#)" has prerequisite(s) WFARM1231 ET WFARM1232 ET WFARM1219

- WFARM1231 - [Organical chemistry of drugs](#)
- WFARM1232 - [General Pharmacology](#)
- WFARM1219


- WFARM1231 - [Organical chemistry of drugs](#)
- WFARM1232 - [General Pharmacology](#)
- WFARM1219 - [Biophysics applied to the drugs](#)

WFARM1369 "[Evaluation de la biodistribution et de l'effet d'un médicament par des méthodes non invasives](#)" has prerequisite(s)
WFARM1232 ET WFARM1219

- WFARM1232 - [General Pharmacology](#)
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○ WMD1105	Chimie générale et minérale	Olivier Riant Alexandru Vlad	PS [q1] [60h +30h] [9 Credits]
○ WMD1106	ORGANIC CHEMISTRY	Mohamed Ayadim Olivier Riant Michael Singleton	PS [q2] [60h +30h] [9 Credits]
○ WFARM1003	Practicals of general chemistry approach	Bernadette Schmitz Alexandru Vlad (coord.)	PS [q2] [0h +30h] [2 Credits]

FARM1BA - 2ND ANNUAL UNIT

- 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
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WFARM1324

General pharmacognosy

Didier Lambert

[q1]
[15h]

☼ WFARM1375	Drugs and sustainable development	Nathalie Delzenne (coord.) Raphaël Frédéric Pauline Modrie Anne Spinewine Sandy Tubeuf Françoise Van Bambeke	☼ [q2] [10h +20h] [2 Credits] ☼
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☼ Formation partielle à l'étranger (Erasmus)

L'étudiant autorisé à réaliser une partie de son parcours à l'étranger au 2e quadrimestre du 3e bloc annuel est dispensé de 12 crédits de la majeure et de 15 de l'approfondissement. Le programme suivi à l'étranger est déterminé en accord avec le responsable académique du programme de l'UCLouvain. Pour plus de renseignements, consulter la rubrique internationalisation et s'adresser au secrétariat de l'école de pharmacie.

FARM1BA - Information

Access Requirements

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.

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

SUMMARY

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- [Specific access requirements](#)
- [Access based on validation of professional experience](#)
- [Special requirements to access some programmes](#)

General access requirements

Except as otherwise provided by other specific legal provisions, admission to undergraduate courses leading to the award of a Bachelor's degree will be granted to students with one of the following qualifications :

1. A Certificate of Upper Secondary Education issued during or after the 1993-1994 academic year by an establishment offering full-time secondary education or an adult education centre in the French Community of Belgium and, as the case may be, approved if it was issued by an educational institution before 1 January 2008 or affixed with the seal of the French Community if it was issued after this date, or an equivalent certificate awarded by the Examination Board of the French Community during or after 1994;
2. A Certificate of Upper Secondary Education issued no later than the end of the 1992-1993 academic year, along with official documentation attesting to the student's ability to pursue higher education for students applying for a full-length undergraduate degree programme;
3. A diploma awarded by a higher education institution within the French Community that confers an academic degree issued under the above-mentioned Decree, or a diploma awarded by a university or institution dispensing full-time higher education in accordance with earlier legislation;
4. A higher education certificate or diploma awarded by an adult education centre;
5. A pass certificate for one of the [entrance examinations](#) organized by higher education institutions or by an examination board of the French Community; this document gives admission to studies in the sectors, fields or programmes indicated therein;
6. A diploma, certificate of studies or other qualification similar to those mentioned above, issued by the Flemish Community of Belgium, the German Community of Belgium or the Royal Military Academy;
7. A diploma, certificate of studies or other qualification obtained abroad and deemed equivalent to the first four mentioned above by virtue of a law, decree, European directive or international convention;

Note:

Requests for equivalence must be submitted to the Equivalence department ([Service des équivalences](#)) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium in compliance with the official deadline.

The following two qualifications are automatically deemed equivalent to the Certificate of Upper Secondary Education (Certificat d'enseignement secondaire supérieur – CESS):

- European Baccalaureate issued by the Board of Governors of a European School,
- International Baccalaureate issued by the International Baccalaureate Office in Geneva.

8. Official documentation attesting to a student's ability to pursue higher education (diplôme d'aptitude à accéder à l'enseignement supérieur - DAES), issued by the Examination Board of the French Community.

Specific access requirements

- Access to bachelor programmes for candidates of nationality outside the European Union who are 8s1J 0 vSic Se the Eu eium ianJ 1 0 0 -1 0 56con

- For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your diploma or, at the very least, proof of the filing of the equivalence request with the Wallonia-Brussels Federation (French Community of Belgium). For any information relating to obtaining an equivalence, please refer to [the following site](#).
- For any secondary school diploma **from a country outside the European Union**, the admission application must contain the [equivalence of your diploma](#) issued by the Wallonia-Brussels Federation (French Community of Belgium). If you have a restrictive equivalence for the programme of your choice, in addition of it, you **must** have either the [DAES](#) or a certificate of successful completion of the [examination giving access to 1st cycle studies](#) when you submit your application

Access based on validation of professional experience

Admission to undergraduate studies on the basis of accreditation of knowledge and skills obtained through professional or personal experience (Accreditation of Prior Experience)

Subject to the general requirements laid down by the authorities of the higher education institution, with the aim of admission to the undergraduate programme, the examination boards accredit the knowledge and skills that students have obtained through their professional or personal experience.

This experience must correspond to at least five years of documented activity, with years spent in higher education being partially taken into account: 60 credits are deemed equivalent to one year of experience, with a maximum of two years being counted. At the end of an assessment procedure organized by the authorities of the higher education institution, the Examination Board will decide whether a student has sufficient skills and knowledge to successfully pursue undergraduate studies.

After this assessment, the Examination Board will determine the additional courses and possible exemptions constituting the supplementary requirements for the student's admission.

Special requirements to access some programmes

- Admission to **undergraduate studies in engineering: civil engineering and architect**

Pass certificate for the [special entrance examination for undergraduate studies in engineering: civil engineering and architect](#).

Admission to these courses is always subject to students passing the special entrance examination. Contact the faculty office for the programme content and the examination arrangements.

- Admission to **undergraduate studies in veterinary medicine**

[Admission to undergraduate studies in veterinary medicine is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in physiotherapy and rehabilitation**

[Admission to undergraduate studies in physiotherapy and rehabilitation is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in psychology and education: speech and language therapy**

[Admission to undergraduate studies in psychology and education: speech and language therapy is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in medicine and dental science**

[Admission to undergraduate studies in medicine and dental science is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

Note: students wishing to enrol for a **Bachelor's degree in Medicine** or a **Bachelor's degree in dental science** must first sit an [aptitude test \(fr\)](#).

- Access to **Bachelor of Science in Business Engineering**

The Bachelor of Science in Business Engineering is a joint program organised by KU Leuven and UCLouvain Saint-Louis Bruxelles. In order to register, all candidate must first submit an application via the [KU Leuven admission platform](#). The [conditions of access](#) to this programme are specific.

