



## FARM1BA - Introduction

### Introduction

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## FARM1BA - Teaching profile

### Learning outcomes

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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.







				Year		
				1	2	3
WFARM1329	Advanced instrumental analysis	Marie-France Herent Giulio Muccioli (coord.)	[q2] [20h+10h] [2 Credits] > English-friendly			X
WFARM1339	Compléments de pharmacocinétique	Laure Elens	[q2] [15h] [2 Credits] > English-friendly			X
WFARM1359	Drug design en chimie pharmaceutique	Raphaël Frédéric (coord.) Didier Lambert	[q2] [15h] [2 Credits] > English-friendly			X
WFARM1369	Evaluation de la biodistribution et de l'effet d'un médicament par des méthodes non invasives	Bernard Gallez	[q2] [15h] [2 Credits]			X
WFARM1379	Seminars of Clinical Chemistry					

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

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*L'étudiant qui ne choisit pas l'approfondissement en sciences pharmaceutiques ou l'approfondissement en sciences pharmaceutiques - recherche-, choisit une mineure d'ouverture proposée par d'autres programmes, à raison de 15 crédits en BAC2 et 15 crédits en BAC3. Maximum 1 élément(s)*

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## List of available minors

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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.

Instead of these options, the bachelor's programme may likewise include an option of a " minor ", which will enable the student to open up new horizons. Minors in the following subjects : Biology, Chemistry, Law, Economics, Human Nutrition, Clinical Biomedical Sciences, Statistics, etc., may be envisaged, subject to the approval of the Teaching Committee of the School of Pharmacy.

- > [Minor in Law \(access\)](#) [ *en-prog-2024-minadroi* ]
- > [Minor in Antiquity: Egypt, Eastern World, Greece, Rome](#) [ *en-prog-2024-minanti* ]
- > [Minor in History of Art and Archeology](#) [ *en-prog-2024-minarke* ]
- > [Minor in Chinese studies](#) [ *en-prog-2024-minchin* ]
- > [Minor in Information and Communication](#) [ *en-prog-2024-mincomu* ]

## Course prerequisites

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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.

- 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 - [Biophysics applied to the drugs](#)
- WFARM1303** "[Biochimie médicale](#)" has prerequisite(s) WFARM1221 ET WFARM1213
- WFARM1221 - [Biochemistry and molecular biology](#)
  - WFARM1213 - [Human physiology and basics of physiopathology](#)
- WFARM1305** "[Eléments de pathologie humaine](#)" has prerequisite(s) WFARM1221 ET WFARM1212 ET WFARM1213
- WFARM1221 - [Biochemistry and molecular biology](#)
  - WFARM1212 - [Eléments de physiologie générale](#)
  - WFARM1213 - [Human physiology and basics of physiopathology](#)
- WFARM1306** "[Microbiologie médicale](#)" has prerequisite(s) WFARM1282
- WFARM1282 - [General microbiology](#)
- WFARM1307** "[Eléments de physico-chimie appliqués aux médicaments](#)" has prerequisite(s) WFARM1243 ET WMD1102
- WFARM1243 - [Introduction to analytical chemistry](#)
  - WMD1102 - [Physique expérimentale et introduction mathématique aux sciences expérimentales \(1e partie\)](#)
- WFARM1309** "[Stage d'immersion professionnelle dans le monde pharmaceutique](#)" has prerequisite(s) WFARM1213 ET WFARM1239 ET WFARM1232
- WFARM1213 - [Human physiology and basics of physiopathology](#)
  - WFARM1239 - [Computerized workshop and research on scientific information related to drugs.](#)
  - WFARM1232 - [General Pharmacology](#)
- WFARM1310** "[Médicaments inorganiques à usage diagnostique et thérapeutique](#)" has prerequisite(s) WFARM1219
- WFARM1219 - [Biophysics applied to the drugs](#)
- WFARM1311** "[Projet expérimental en sciences pharmaceutiques](#)" has prerequisite(s) LANGL1855 ET WFARM1247 ET WFARM1239
- LANGL1855 - [Medical English](#)
  - WFARM1247 - [Statistical data processing](#)
  - WFARM1239 - [Computerized workshop and research on scientific information related to drugs.](#)
- WFARM1312** "[Analyse instrumentale appliquée aux sciences pharmaceutiques](#)" has prerequisite(s) WFARM1243 ET WFARM1219
- WFARM1243 - [Introduction to analytical chemistry](#)
  - WFARM1219 - [Biophysics applied to the drugs](#)
- WFARM1313** "[Travaux pratiques d'analyse instrumentale](#)" has prerequisite(s) WFARM1243 ET WFARM1244 ET WFARM1219
- WFARM1243 - [Introduction to analytical chemistry](#)
  - WFARM1244 - [Travaux pratiques d'introduction à la chimie analytique](#)
  - WFARM1219 - [Biophysics applied to the drugs](#)
- WFARM1319** "[Pharmacognosie-étude de cas](#)" has prerequisite(s) WFARM1237 ET WFARM1238
- WFARM1237 - [Botanical introduction to pharmacognosy](#)
  - WFARM1238 - [Active ingredients of natural origin](#)
- WFARM1324** "[Pharmacognosie générale](#)" has prerequisite(s) WFARM1237 ET WFARM1238
- WFARM1237 - [Botanical introduction to pharmacognosy](#)
  - WFARM1238 - [Active ingredients of natural origin](#)
- WFARM1325** "[Pharmacognosie spéciale, y compris phytothérapie](#)" has prerequisite(s) WFARM1237 ET WFARM1238
- WFARM1237 - [Botanical introduction to pharmacognosy](#)
  - WFARM1238 - [Active ingredients of natural origin](#)
- WFARM1329** "[Compléments d'analyse instrumentale](#)" has prerequisite(s) WFARM1243 ET WFARM1219
- WFARM1243 - [Introduction to analytical chemistry](#)
  - WFARM1219 - [Biophysics applied to the drugs](#)
- WFARM1332** "[Pharmacologie générale, 2e partie](#)" has prerequisite(s) WFARM1213 ET WFARM1232
- WFARM1213 - [Human physiology and basics of physiopathology](#)
  - WFARM1232 - [General Pharmacology](#)
- WFARM1339** "[Compléments de pharmacocinétique](#)" has prerequisite(s) WFARM1221 ET WFARM1213
- WFARM1221 - [Biochemistry and molecular biology](#)
  - WFARM1213 - [Human physiology and basics of physiopathology](#)
- WFARM1349**

- 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](#)
  - WFARM1219 - [Biophysics applied to the drugs](#)
- WFARM1370** "[Formation à la communication scientifique](#)" has prerequisite(s) LANGL1855 ET WFARM1239
- LANGL1855 - [Medical English](#)
  - WFARM1239 - [Computerized workshop and research on scientific information related to drugs.](#)
- WFARM1379** "[Exercices pratiques de biochimie médicale](#)" has prerequisite(s) WFARM1221 ET WFARM1213
- WFARM1221 - [Biochemistry and molecular biology](#)
  - WFARM1213 - [Human physiology and basics of physiopathology](#)
- WFARM1380** "[Stage d'immersion en recherche pharmaceutique](#)" has prerequisite(s) LANGL1855 ET WFARM1247 ET WFARM1239
- LANGL1855 - [Medical English](#)
  - WFARM1247 - [Statistical data processing](#)
  - WFARM1239 - [Computerized workshop and research on scientific information related to drugs.](#)
- WFARM1383** "[Génétique et biotechnologie pharmaceutiques](#)" has prerequisite(s) WFARM1221 ET WFARM1282
- WFARM1221 - [Biochemistry and molecular biology](#)
  - WFARM1282 - [General microbiology](#)
- WSBIM1334F** "[Immunologie générale \(partim FARM\)](#)" has prerequisite(s) WFARM1221 ET WFARM1282
- WFARM1221 - [Biochemistry and molecular biology](#)
  - WFARM1282 - [General microbiology](#)

## The programme's courses and learning outcomes

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For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

## Detailed programme per annual block

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### FARM1BA - 1ST ANNUAL UNIT

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- 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...)

### ○ Majeure

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#### ○ Des atomes, des molécules et des systèmes qui les régissent

○ WMD1102	<a href="#">Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)</a>	
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## FARM1BA - 2ND ANNUAL UNIT

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- 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, ...)
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## ⌘ Additional module in Pharmacy

### ○ Deuxième bloc annuel de bachelier

○ LANGL1855	Medical English 🟡	Timothy Byrne (coord.) Aurélie Deneumoustier Carlo Lefevre (coord.)	EN [q1 or q2] [30h] [3 Credits] 🌐
○ WFARM1219	Biophysics applied to the drugs 🟡	Bernard Gallez (coord.) Joseph Lorent	EN [q1] [30h] +15h] [3 Credits] 🌐
○ WFARM1247	Statistical data processing 🟡	Eugen Pircalabelu	EN [q2] [15h] +15h] [3 Credits] 🌐
○ WFARM1239	Computerized workshop and research on scientific information related to drugs. 🟡	Roberta Galdani (compensates Laure Bindels)	EN [q1] [5h] +10h] [2 Credits] 🌐
○ WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Séverine Henrard	EN [q2] [20h] [2 Credits] 🌐 > English- friendly
○ WFARM1290	Communication professionnelle en santé	Olivier Costa Muriel Rocour (coord.) Stephan Van den Broucke	EN [q2] [15h] +10h] [2 Credits] 🌐

## ⌘ Approfondissement en sciences pharmaceutiques - recherche

### ○ Deuxième bloc annuel de bachelier

#### ○ Cours obligatoires

○ LANGL1855	Medical English 🟡	Timothy Byrne (coord.) Aurélie Deneumoustier Carlo Lefevre (coord.)	EN [q1 or q2] [30h] [3 Credits] 🌐
○ WFARM1219	Biophysics applied to the drugs 🟡	Bernard Gallez (coord.) Joseph Lorent	EN [q1] [30h] +15h] [3 Credits] 🌐
○ WFARM1247	Statistical data processing 🟡	Eugen Pircalabelu	EN [q2] [15h] +15h] [3 Credits] 🌐
○ WFARM1239	Computerized workshop and research on scientific information related to drugs. 🟡	Roberta Galdani (compensates Laure Bindels)	EN [q1] [5h] +10h] [2 Credits] 🌐
○ WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Séverine Henrard	EN [q2] [20h] [2 Credits] 🌐 > English- friendly
○ WFARM1290	Communication professionnelle en santé	Olivier Costa Muriel Rocour (coord.) Stephan Van den Broucke	EN [q2] [15h] +10h] [2 Credits] 🌐

### ○ Minor or additional module

L'étudiant qui ne choisit pas l'approfondissement en sciences pharmaceutiques ou l'approfondissement en sciences pharmaceutiques -recherche-, choisit une mineure d'ouverture proposée par d'autres programmes, à raison de 15 crédits en BAC2 et 15 crédits en BAC3.

Maximum 1 element(s)





WFARM1324

General pharmacognosy

Didier Lambert



**FARM1BA - Information**

- 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 1<sup>st</sup> 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 \(fr\)](#).

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