

**At Bruxelles Woluwe - 180 credits - 3 years - Day schedule - In French**

Dissertation/Graduation Project : **NO** - Internship : **optional**

Activities in English: **NO** - 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: **FARM1BA** - Francophone Certification Framework: 6

## Table of contents

Introduction .....	2
Teaching profile .....	












				Year		
				1	2	3
○ WFARM1302	Pharmaceutical organic chemistry 	Raphaël Frédéric (coord.) Didier Lambert Séverine Ravez (compensates Raphaël Frédéric) Quentin Spillier	FR [q1+q2] [45h+30h] [6 Credits]  > <i>English-friendly</i>			

Year

1 2 3

**0 Cours au choix de l'approfondissement (6 crédits)**

L'étudiant choisit 6 crédits dans la liste ci-dessous.

WFARM1319	Pharmacognosy, case studies	Didier Lambert Joseph Lorent	EN [q2] [15h] [2 Credits]  > English-friendly			X
WFARM1329	Advanced instrumental analysis	Marie-France Herent Giulio Muccioli (coord.)	EN [q2] [20h+10h] [2 Credits]  > English-friendly			X
WFARM1339	Compléments de pharmacocinétique	Laure Elens	EN [q2] [15h] [2 Credits]  > English-friendly			X
WFARM1359	Drug design en chimie pharmaceutique					

**✂ Formation partielle à l'étranger (Erasmus) (27 credits)**

L'étudiant autorisé à réaliser une partie de son parcours à l'étranger au 2<sup>e</sup> quadrimestre du 3<sup>e</sup> 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.

**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 ]
- > [Minor in Culture and Creation](#) [ en-prog-2024-mincucrea ]
- > [Minor in Scientific Culture](#) [ en-prog-2024-minculsts ]
- > [Minor in Development and Environment](#) [ en-prog-2024-mindenv ]
- > [Minor in Economics](#) [ en-prog-2024-minecon ]
- > [Minor in European Studies](#) [ en-prog-2024-mineuro ]
- > [Minor in Gender Studies](#) [ en-prog-2024-mingenre ]
- > [Minor in Mangement \(basic knowledge\)](#) [ en-prog-2024-minogest ]
- > [Minor in History](#) [ en-prog-2024-minhist ]
- > [Minor in Human and Social Sciences](#) [ en-prog-2024-minhuso ]
- > [Minor in Arabic language and Islamic civilization](#) [ en-prog-2024-minislam ]
- > [Minor in Philosophy](#) [ en-prog-2024-minfilo ]
- > [Minor in Medieval Studies](#) [ en-prog-2024-minmedi ]
- > [Minor in Musicology](#) [ en-prog-2024-minmusi ]
- > [Minor in Law \(openness\)](#) [ en-prog-2024-minodroi ]
- > [Minor in Economics \(open\)](#) [ en-prog-2024-minoeco ]
- > [Minor in Oriental Studies](#) [ en-prog-2024-minori ]
- > [Minor in Sciences of Religions \(openness\)](#) [ en-prog-2024-minreli ]
- > [Minor in Sociology and Anthropology](#) [ en-prog-2024-minsoca ]
- > [Minor in Population and Development Studies](#) [ en-prog-2024-minsped ]
- > [Minor in Political Sciences](#) [ en-prog-2024-minspol ]
- > [Minor in Statistics, Actuarial Sciences and Data Sciences](#) [ en-prog-2024-minstat ]
- > [Minor in numerical technologies and society](#) [ en-prog-2024-minstic ]
- > [Minor in Christian Theology](#) [ en-prog-2024-mintheo ]
- > [Additionnal module in Pharmacy](#) [ en-prog-2024-appfarm ]
- > [Approfondissement en sciences pharmaceutiques - recherche](#) [ en-prog-2024-appfarr ]
- > [Minor in Biomedicine \(openness\)](#) [ en-prog-2024-minsbim ]
- > [Minor in Literary Studies](#) [ en-prog-2024-minlitter ]
- > [Minor in Linguistics](#) [ en-prog-2024-minlingui ]

## 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.

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](#).

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### # Prerequisites list

**LANGL1855** "Medical English" has prerequisite(s) LANGL1854

- LANGL1854 - Medical English

**WFARM1212** "Éléments de physiologie générale" has prerequisite(s)

- WFARM1300** "Pharmacokinetics and metabolism of xenobiotics" has prerequisite(s) WFARM1221 AND WFARM1213
- WFARM1221 - Biochemistry and molecular biology
  - WFARM1213 - Human physiology and basics of physiopathology
- WFARM1302** "Pharmaceutical organic chemistry" has prerequisite(s) WFARM1231 AND WFARM1232 AND 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 AND WFARM1219
- WFARM1232 - [General Pharmacology](#)
  - WFARM1219 - [Biophysics applied to the drugs](#)
- WFARM1370** "[Formation à la communication scientifique](#)" has prerequisite(s) LANGL1855 AND WFARM1239
- LANGL1855 - [Medical English](#)
  - WFARM1239 - [Computerized workshop and research on scientific information related to drugs.](#)
- WFARM1379** "[Seminars of Clinical Chemistry](#)" has prerequisite(s) WFARM1221 AND WFARM1213
- WFARM1221 - [Biochemistry and molecular biology](#)
  - WFARM1213 - [Human physiology and basics of physiopathology](#)
- WFARM1380** "[Stage d'immersion en recherche pharmaceutique](#)" has prerequisite(s) LANGL1855 AND WFARM1247 AND WFARM1239
- LANGL1855 - [Medical English](#)
  - WFARM1247 - [Statistical data processing](#)
  - WFARM1239 - [Computerized workshop and research on scientific information related to drugs.](#)
- WFARM1383** "[Pharmaceutical genetics and biotechnology](#)" has prerequisite(s) WFARM1221 AND WFARM1282
- WFARM1221 - [Biochemistry and molecular biology](#)
  - WFARM1282 - [General microbiology](#)
- WSBIM1334F** "[general immunology](#)" has prerequisite(s) WFARM1221 AND 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
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○ WMD1105	Chimie générale et minérale	Olivier Riant Alexandru Vlad	ES [q1] [60h +30h] [9 Credits]
○ WMD1106	ORGANIC CHEMISTRY	Mohamed Ayadim Olivier Riant Michael Singleton	ES [q2] [60h +30h] [9 Credits]
○ WFARM1003	Practicals of general chemistry approach	Bernadette Schmitz Alexandru Vlad (coord.)	ES [q2] [0h +30h] [2 Credits]

### o De la cellule végétale à la cellule animale, des tissus à l'être humain

○ WMD1120P	General biology and an experimental approach to biology	Jean Baptiste Demoulin (coord.)	ES [q1] [75h +25h] [9 Credits] > English- friendly
○ WMD1006	Cytology and general histology	Christophe Pierreux	ES [q2] [10h +40h] [5 Credits]
○ WFARM1009	Elements of general and functional anatomy	Christine Galant (coord.) Catherine Hubert Alain Poncelet	ES [q2] [30h] [3 Credits]

### o Du médicament



**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
- 🌐 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 Majeure****o Des atomes, des molécules et des systèmes qui les régissent**

● WFARM1243	<a href="#">Introduction to analytical chemistry</a> ■	Marie-France Herent Giulio Muccioli (coord.)	FR [q2] [30h] [4 Credits] 🌐 > English- friendly
● WFARM1244	<a href="#">Travaux pratiques d'introduction à la chimie analytique</a> ■	Marie-France Herent Giulio Muccioli (coord.)	FR [q2] [0h +105h] [3 Credits] 🌐
● WFARM1231	<a href="#">Organical chemistry of drugs</a> ■	Mohamed Ayadim Raphaël Frédéric (coord.)	FR [q1+q2] [45h +120h] [10 Credits] 🌐 > English- friendly
● WFARM1221	<a href="#">Biochemistry and molecular biology</a> ■	Nathalie Delzenne (coord.) Frédéric Lemaigre Joseph Lorent	FR [q1] [75h +37.5h] [10 Credits] 🌐

**o De la cellule végétale à la cellule animale, des tissus à l'être humain**

● WFARM1212	<a href="#">Eléments de physiologie générale</a> ■	Olivier Feron	FR [q1] [15h +7.5h] [2 Credits] 🌐 > English- friendly
● WFARM1213	<a href="#">Human physiology and basics of physiopathology</a> ■	Olivier Feron (coord.) Emmanuel Hermans Jean-Christophe Jonas (compensates Mandy Grootaert)	FR [q2] [60h] [6 Credits] 🌐 > English- friendly
● WFARM1282	<a href="#">General microbiology</a> ■	Thomas Michiels	FR [q1] [20h +15h] [3 Credits] 🌐

**o Du médicament**

● WFARM1232	<a href="#">General Pharmacology</a> ■	Emmanuel Hermans	FR [q1] [22.5h +7.5h] [3 Credits] 🌐
● WFARM1237	<a href="#">Botanical introduction to pharmacognosy</a> ■	Stephan Declercq Muriel Quinet (coord.)	FR [q1] [15h +10h] [2 Credits] 🌐
● WFARM1238	<a href="#">Active ingredients of natural origin</a> ■	Didier Lambert Muriel Quinet (coord.)	FR [q2] [15h]



**FARM1BA - 3RD 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
- 🌐 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 Majeure****o Des atomes, des molécules et des systèmes qui les régissent**

○ WFARM1312	<a href="#">Instrumental analysis applied to pharmaceutical sciences</a> ■	Marie-France Herent Giulio Muccioli (coord.)	[FR] [q1] [30h] [3 Credits] 🌐 > English- friendly
○ WFARM1313	<a href="#">Travaux pratiques d'analyse instrumentale</a> ■	Marie-France Herent Giulio Muccioli (coord.)	[FR] [q1] [0h +105h] [3 Credits] 🌐
○ WFARM1383	<a href="#">Pharmaceutical genetics and biotechnology</a> ■	Jean-François Collet Jean Baptiste Demoulin (coord.) Amandine Everard (compensates Laure Bindels) Sophie Lucas	[FR] [q2] [36h] [3 Credits] 🌐

**o De la cellule végétale à la cellule animale, des tissus à l'être humain**

○ WFARM1305	<a href="#">Elements of General Pathology</a> ■	Mélanie Dechamps Olivier Feron (coord.)	[FR] [q2] [30h] [3 Credits] 🌐 > English- friendly
○ WFARM1306	<a href="#">Medical microbiology</a> ■	Benoît Kabamba-Mukadi Hector Rodriguez- Villalobos (coord.) Alexia Verroken	[FR] [q1] [45h] [4 Credits] 🌐
○ WSBIM1334F	<a href="#">general immunology</a> ■	Sophie Lucas (coord.)	[FR] [q1] [35h] [3 Credits] 🌐 > English- friendly
○ WFARM1303	<a href="#">Clinical Chemistry</a> ■	Joseph Dewulf Catherine Fillee Damien Gruson Vincent Haufroid (coord.) Madeleine Rousseaux	[FR] [q2] [20h] [2 Credits] 🌐

**o Du médicament**

○ WFARM1302	<a href="#">Pharmaceutical organic chemistry</a>		
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WFARM1324



## 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

- [General access requirements](#)
- [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 not assimilated to Belgian nationals is subject to the following criteria:
  - not have obtained a secondary education diploma for more than 3 years maximum. Example: for an admission application for the academic year 2024-2025, you must have obtained your diploma during the academic years 2021-2022, 2022-2023 ou 2023-2024. In the French Community of Belgium, the academic year runs from September 14 to September 13
  - not already hold an undergraduate degree
- Candidates, whatever their nationality, with a secondary school diploma **from a country outside the European Union**, must have obtained an average of 13/20 minimum or, failing that, have obtained this average, have passed one year of study in Belgium (for example special Maths / sciences). A non-successful year will not be taken into consideration.



## Specific professional rules

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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

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The training provided in the Bachelor in Pharmacy programme is based on a variety of teaching methods enabling an integrated approach to the theoretical and practical aspects of the different disciplines with regard to medication.

The theory courses are aimed at developing a specialised knowledge base, using practical examples illustrating the complexity of pharmacy. Most of the theory courses are also associated with practical laboratory work, exercises and seminars during which the students are actively engaged in their training.

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.

Finally, through work placements in a professional environment, the Bachelor in Pharmacy training enables the students to discover for themselves the various aspects of the pharmacist's job. 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

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***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

## Entity

Structure entity	SSS/FASB/FARM
Denomination	(FARM)
Faculty	Faculty of Pharmacy and Biomedical Sciences (FASB)
Sector	Health Sciences (SSS)
Acronym	FARM
Postal address	Avenue Mounier 73 - bte B1.73.03 1200 Woluwe-Saint-Lambert Tel: +32 (0)2 764 73 60

Academic supervisor: [Françoise Van Bambeke](#)

Other academic Supervisor(s)

- [Giulio Muccioli](#)

## Jury

- Président des 3 années de bachelier: [Bernard Gallez](#)
- Secrétaire de jury de la 1re année: [Giulio Muccioli](#)

Useful Contact(s)

- Personne de contact de la 1re année de bachelier: [secretariat-bac1-fasb@uclouvain.be](mailto:secretariat-bac1-fasb@uclouvain.be)
- Personne de contact des 2e et 3e années de bachelier: [secretariat-farm@uclouvain.be](mailto:secretariat-farm@uclouvain.be)
- Responsable administrative de la faculté de pharmacie et de sciences biomédicales: [Johanne Garny](#)
- Conseiller aux études: [Marie-France Herent](#)

