

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

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FARM1BA - Introduction

Introduction

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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.

				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

○ 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	EX [q2] [15h] [2 Credits] 🌐 > English-friendly			X
☼ WFARM1329	Advanced instrumental analysis 🟡	Marie-France Herent Giulio Muccioli (coord.)	EX [q2] [20h+10h] [2 Credits] 🌐 > English-friendly			X
☼ WFARM1339	Compléments de pharmacocinétique 🟡	Laure Elens	EX [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^e quadrimestre du 3^e 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)

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)

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.

- 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

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

FARM1BA - 1ST ANNUAL UNIT

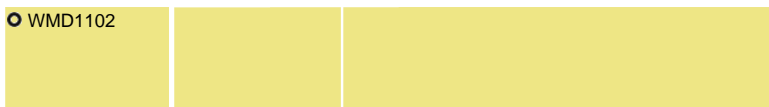
- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊙ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

○ Majeure

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

○ WMD1102



○ 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, ...)
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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)

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	Instrumental analysis applied to pharmaceutical sciences ■	Marie-France Herent Giulio Muccioli (coord.)	[FR] [q1] [30h] [3 Credits] 🌐 > English- friendly
○ WFARM1313	Travaux pratiques d'analyse instrumentale ■	Marie-France Herent Giulio Muccioli (coord.)	[FR] [q1] [0h +105h] [3 Credits] 🌐
○ WFARM1383	Pharmaceutical genetics and biotechnology ■	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	Elements of General Pathology ■	Mélanie Dechamps Olivier Feron (coord.)	[FR] [q2] [30h] [3 Credits] 🌐 > English- friendly
○ WFARM1306	Medical microbiology ■	Benoît Kabamba-Mukadi Hector Rodriguez- Villalobos (coord.) Alexia Verroken	[FR] [q1] [45h] [4 Credits] 🌐
○ WSBIM1334F	general immunology ■	Sophie Lucas (coord.)	[FR] [q1] [35h] [3 Credits] 🌐 > English- friendly
○ WFARM1303	Clinical Chemistry ■	Joseph Dewulf Catherine Fillee Damien Gruson Vincent Haufroid (coord.) Madeleine Rousseaux	[FR] [q2] [20h] [2 Credits] 🌐

o Du médicament

○ WFARM1302	Pharmaceutical organic chemistry		
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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.

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

