

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

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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.

5. Quality: carry out self-assessment, supplement their knowledge and adapt their approach

5a. Develop a self-assessment approach to define their training needs in order to respond to specific situations.

5b. Utilise the individual and collective training tools in a robust and independent manner.

5c. Adapt to a variety of learning situations and take advantage of them while managing stress.

Programme structure

The bachelor's of Pharmaceutical Sciences represents 180 credits.

A credit refers to " the volume of work that the student needs to produce to attain the study objectives".

The " major " of the programme consists of basic foundation studies for 60 credits (1st year) and specific studies (2nd and 3rd year) for 90 credits.

The major is completed by a course of 30 credits - an option, such as those offered on the "options menu", (advanced studies in Pharmaceutical Sciences), or in the form of a " minor " (an opening course in other disciplines). These courses of 30 credits may be followed on a parallel with the specific course.

Principal Subjects

The bachelor's studies enable the student to learn about the functioning of life, from the atom to society.

Atoms, molecules and the systems which govern them

General Chemistry, Analytical, Inorganic and Organic Life, - Biochemistry - Applied Physics - Biophysics - Processing Applied Data - Instrumental Analysis.

From plant cells to animal cells, from organic tissue to the human being

General, Cellular, Special and Molecular Biology - Cytology and Histology - Elements of Functional Anatomy - Immunology - Physiology - Microbiology - General Pathology - Botanical Introduction to Pharmacognosy - Medical Biochemistry

Medication

Organic Chemistry applied to Medication - Conception of Medication - Pharmacology - Introduction to Pharmacotherapy - Pharmacokinetics and Xeno-biotic Metabolism - Pharmacognosy - Pharmaceutical Chemistry

Man and Society, the individual in the professional world

Philosophy - English

Immersion internship in a pharmaceutical milieu and the corresponding introduction courses

FARM1BA Detailed programme

Programme by subject

Year

1 2 3

o Majeure (150 credits)

o Des atomes, des molécules et des systèmes qui les régissent (67 credits)

o WMD1102	Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)	Eduardo Cortina Gil	60h+21h	8 Credits	q1	x		
o WMD1104	Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)	Michel Herquet (compensates Fabio Maltoni)	30h+21h	5 Credits	q2	x		
o WMD1105	Chimie générale et minérale	Mark Rider (coord.) Alexandru Vlad	60h+30h	9 Credits	q1	x		
o WMD1106	ORGANIC CHEMISTRY	Olivier Riant Michael Singleton	60h+30h	9 Credits	q2	x		
o WFARM1003	Practicals of general chemistry approach	Mark Rider	0h+30h	2 Credits	q2	x		
o WFARM1243	Introduction à la chimie analytique 🟡	Marie-France Herent Giulio Muccioli (coord.)	30h	3 Credits	q2		x	
o WFARM1244	Travaux pratiques d'introduction à la chimie analytique 🟡	Marie-France Herent Giulio Muccioli (coord.)	0h+105h	3 Credits	q2		x	
o WFARM1231	Organical chemistry of drugs 🟡	Mohamed Ayadim Raphaël Frédéric (coord.)	45h+120h	10 Credits	q1+q2			x
o WFARM1221	Biochemistry and molecular biology 🟡	Nathalie Delzenne (coord.) Frédéric Lemaigre Marie-Paule Mingeot	75h +37.5h	10 Credits	q1			x

						Year		
						1	2	3
○ WFARM1312	Analyse instrumentale appliquée aux sciences pharmaceutiques	Marie-France Herent Giulio Muccioli (coord.)	30h	3 Credits	q1			x
○ WFARM1313	Travaux pratiques d'analyse instrumentale	Marie-France Herent Giulio Muccioli (coord.)	0h+105h	3 Credits	q1			x
○ WFARM1383	Génétique et biotechnologie pharmaceutiques	Laure Bindels Jean-François Collet Jean Baptiste Demoulin (coord.) Sophie Lucas	30h	2 Credits	q2			x

o De la cellule végétale à la cellule animale, des tissus à l'être humain (40 crédits)

○ WMD1120P	Biologie générale et approche expérimentale de la biologie (partim biologie générale)		65h+25h	9 Credits	q1	x		
○ WMD1006	Cytology and general histology	Christophe Pierreux	10h+40h	5 Credits	q2	x		
○ WFARM1009	Elements of general and functional anatomy	Christine Galant (coord.) Pierre Gianello Alain Poncelet	30h	3 Credits	q2	x		
○ WFARM1212	Eléments de physiologie générale	Olivier Feron	15h+7.5h	2 Credits	q1		x	
○ WFARM1213	Human physiology and basics of physiopathology	Olivier Feron (coord.) Emmanuel Hermans Philippe Lysy	60h	6 Credits	q2		x	
○ WFARM1282	General microbiology	Thomas Michiels	20h+15h	3 Credits	q1		x	
○ WFARM1305	Elements of General Pathology	Mélanie Dechamps Olivier Feron (coord.)	30h	3 Credits	q2			x
○ WFARM1306	Medical microbiology	Benoît Kabamba-Mukadi Hector Rodriguez-Villalobos (coord.) Alexia Verroken	45h	4 Credits	q1			x
○ WSBIM1334F	Immunologie générale (partim FARM)	Pierre Coulie (coord.)	35h	3 Credits	q1			x
○ WFARM1303	Clinical Chemistry	Catherine Fillee Damien Gruson Vincent Haufried (coord.) Marie-Astrid van Dievoet	20h	2 Credits	q2			x

o Du médicament (37 crédits)

○ WFARM1004	The molecular aspect of drugs	Mohamed Ayadim Raphaël Frédéric (coord.)	15h+15h	2 Credits	q2	x		
○ WFARM1008	Design of the drug	Giulio Muccioli Véronique Prétat (coord.)	15h+15h	2 Credits	q2	x		
○ WFARM1232	General Pharmacology	Emmanuel Hermans	15h+7.5h	2 Credits	q1		x	
○ WFARM1237	Introduction botanique à la pharmacognosie 1re partie	Stephan Declerck Muriel Quinet (coord.)	22.5h +15h	3 Credits	q1		x	
○ WFARM1238	Introduction botanique à la pharmacognosie 2e partie	Joëlle Leclercq Muriel Quinet (coord.)	22.5h +15h	3 Credits	q2		x	
○ WFARM1302	Pharmaceutical organic chemistry	Raphaël Frédéric (coord.) Didier Lambert	45h+30h	6 Credits	q1+q2			x
○ WFARM1307	Physical pharmacy	Tom Leysens	15h	2 Credits	q2			x
○ WFARM1332	Pharmacologie générale, 2e partie	Chantal Dessy Marie-Paule Mingeot	36h	4 Credits	q1			x
○ WFARM1324	Pharmacognosy	Joëlle Leclercq	22.5h +15h	3 Credits	q1			x
○ WFARM1325	Pharmacognosie : plantes médicinales	Joëlle Leclercq	22.5h +15h	3 Credits	q2			x
○ WFARM1300	Pharmacocinétique et métabolisme des xénobiotiques	Laure Bindels (compensates) Nathalie Delzenne Laure Elens	30h+30h	4 Credits	q1			x
○ WFARM1310	Inorganic drugs with use diagnosis and therapeutic	Bernard Gallez	30h	3 Credits	q1			x

o L'homme et la société, l'individu dans le monde professionnel (6 credits)

o WFARM1160	Philosophy	Fabio Bruschi (compensates) Mylene Botbol	30h	3 Credits	q1	x		
o LANGL1854	Medical English	Aurélié Deneumoustier Charlotte Diaz (compensates) Ariane Halleux Carlo Lefevre (coord.) Laura Lievens (compensates) Ariane Halleux Lucille Meyers	30h	3 Credits	q2	x		

⌘ Additional module in Pharmacy (30 credits)

o Deuxième bloc annuel de bachelier

o LANGL1855	Medical English 🟡	Timothy Byrne (coord.) Aurélié Deneumoustier Carlo Lefevre (coord.) Mark Theodore Pertuit	30h	3 Credits	q1 or q2		x	
o WFARM1219	Biophysics applied to the drugs 🟡	Bernard Gallez (coord.) Marie-Paule Mingeot	30h+15h	3 Credits	q1		x	
o WFARM1247	Traitement statistique des données 🟡	Eugen Pircalabelu	15h+15h	3 Credits	q2		x	
o WFARM1239	Computerized workshop and research on scientific information related to drugs. 🟡	Laure Bindels	5h+10h	2 Credits	q1		x	
o WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Séverine Henrard	20h	2 Credits	q2		x	
o WFARM1290	Communication professionnelle en santé 🟡	Olivier Costa Muriel Rocour (coord.) Stephan Van den Broucke	15h+10h	2 Credits	q2		x	

o Troisième bloc annuel de bachelier

Dans le cadre du complément à la majeure en bloc annuel 3, l'étudiant choisit soit de poursuivre l'approfondissement débuté en 2e bloc annuel, soit de bifurquer de l'approfondissement en sciences pharmaceutiques vers l'approfondissement en sciences pharmaceutiques - recherche, soit de réaliser une partie de sa formation à l'étranger (Erasmus).

⌘ Poursuite de l'approfondissement (9 crédits obligatoires et 6 crédits au choix) (15 credits)

o WFARM1309	Internships in the pharmaceutical world 🟡	Marie-Paule Mingeot (coord.) Giulio Muccioli Stéphanie Quennery Rita Vanbever Pierre Wallemacq	7.5h	5 Credits	q2			x
o WFARM1349	Integrated Seminar in Pharmaceutical Sciences 🟡	Raphaël Frédéric Emmanuel Hermans (coord.) Bénédicte Jordan Marie-Paule Mingeot Giulio Muccioli	45h	4 Credits	q2			x

o Cours au choix de l'approfondissement (6 credits)

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

⌘ WFARM1319	Pharmacognosy, case studies 🟡	Joëlle Leclercq	15h	2 Credits	q2			x
⌘ WFARM1329	Advanced instrumental analysis 🟡	Marie-France Herent Giulio Muccioli (coord.)	20h+10h	2 Credits	q2			x
⌘ WFARM1339	Compléments de pharmacocinétique 🟡	Laure Elens	15h	2 Credits	q2			x
⌘ WFARM1359	Drug design en chimie pharmaceutique 🟡	Raphaël Frédéric (coord.) Didier Lambert	15h	2 Credits	q2			x
⌘ WFARM1369	Evaluation de la biodistribution et de l'effet d'un médicament par des méthodes non invasives 🟡	Bernard Gallez	15h	2 Credits	q2			x

						Year		
						1	2	3
⌘ WFARM1379	Seminars of Clinical Chemistry 🟡	Joseph Dewulf Catherine Fillee Damien Gruson (coord.) Vincent Haufroid Diane Maisin	0h+30h	2 Credits	q2			x
⌘ WFARM1370	Formation à la communication scientifique 🟡	Timothy Byrne (coord.) Olivia Dalleur	15h+30h	4 Credits	q2			x

⌘ Formation partielle à l'étranger (Erasmus) (27 crédits)

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.

⌘ Approfondissement en sciences pharmaceutiques - recherche (30 crédits)

○ Deuxième bloc annuel de bachelier (15 crédits)

○ Cours obligatoires

○ LANGL1855	Medical English 🟡	Timothy Byrne (coord.) Aurélié Deneumoustier Carlo Lefevre (coord.) Mark Theodore Pertuit	30h	3 Credits	q1 or q2		x	
○ WFARM1219	Biophysics applied to the drugs 🟡	Bernard Gallez (coord.) Marie-Paule Mingeot	30h+15h	3 Credits	q1		x	
○ WFARM1247	Traitement statistique des données 🟡	Eugen Pircalabelu	15h+15h	3 Credits	q2		x	
○ WFARM1239	Computerized workshop and research on scientific information related to drugs. 🟡	Laure Bindels	5h+10h	2 Credits	q1		x	
○ WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Séverine Henrard	20h	2 Credits	q2		x	
○ WFARM1290	Communication professionnelle en santé 🟡	Olivier Costa Muriel Rocour (coord.) Stephan Van den Broucke	15h+10h	2 Credits	q2		x	

○ Troisième bloc annuel de bachelier (15 crédits)

Dans le cadre de la mineure d'approfondissement en sciences pharmaceutiques - recherche, l'étudiant est tenu de choisir l'une des deux possibilités suivantes. Un transfert vers le programme de l'approfondissement en sciences pharmaceutiques est toutefois possible.

○ WFARM1380	Stage d'immersion en recherche pharmaceutique 🟡			7 Credits	q2			x
○ WFARM1311	Projet expérimental en sciences pharmaceutiques 🟡			8 Credits	q2			x

⌘ Formation partielle à l'étranger (Erasmus) (27 crédits)

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.

○ Minor or additional module (30 crédits)

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.

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.

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-2020-minadroi]
- > [Minor in Antiquity: Egypt, Eastern World, Greece, Rome](#) [en-prog-2020-minanti]
- > [Minor in History of Art and Archeology](#) [en-prog-2020-minarke]
- > [Minor in Chinese studies](#) [en-prog-2020-minchin]
- > [Minor in Information and Communication](#) [en-prog-2020-mincomu]
- > [Minor in Culture and Creation](#) [en-prog-2020-mincucreea]
- > [Minor in Scientific Culture](#) [en-prog-2020-mincults]
- > [Minor in Development and Environment](#) [en-prog-2020-mindenv]
- > [Minor in Economics](#) [en-prog-2020-minecon]
- > [Minor in European Studies](#) [en-prog-2020-mineuro]
- > [Minor in Education](#) [en-prog-2020-minfopa]
- > [Minor in French Studies](#) [en-prog-2020-minfran]
- > [Minor in Gender Studies](#) [en-prog-2020-mingenre]
- > [Minor in Geography](#) [en-prog-2020-mingeog]
- > [Minor in Mangement \(basic knowledge\)](#) [en-prog-2020-minogest]
- > [Minor in History](#) [en-prog-2020-minhist]
- > [Minor in Human and Social Sciences](#) [en-prog-2020-minhuso]
- > [Minor in Arabic language and Islamic civilization](#) [en-prog-2020-minislam]
- > [Minor in Philosophy](#) [en-prog-2020-minfilo]
- > [Minor in Linguistics](#) [en-prog-2020-minling]
- > [Minor in Literary Studies](#) [en-prog-2020-minlitt]
- > [Minor in Medieval Studies](#) [en-prog-2020-minmedi]
- > [Minor in Musicology](#) [en-prog-2020-minmusi]
- > [Minor in Law \(openness\)](#) [en-prog-2020-minodroi]
- > [Minor in Economics \(open\)](#) [en-prog-2020-minoeco]
- > [Minor in Oriental Studies](#) [en-prog-2020-minori]
- > [Minor in Sciences of Religions \(openness\)](#) [en-prog-2020-minreli]
- > [Minor in Sociology and Anthropology](#) [en-prog-2020-minsoca]
- > [Minor in Population and Development Studies](#) [en-prog-2020-minsped]
- > [Minor in Political Sciences](#) [en-prog-2020-minspol]
- > [Minor in Statistics, Actuarial Sciences and Data Sciences](#) [en-prog-2020-minstat]
- > [Minor in numerical technologies and society](#) [en-prog-2020-minstic]
- > [Minor in Christian Theology](#) [en-prog-2020-mintheo]
- > [Additionnal module in Pharmacy](#) [en-prog-2020-appfarm]
- > [Approfondissement en sciences pharmaceutiques - recherche](#) [en-prog-2020-appfarr]
- > [Minor in Biomedicine \(openness\)](#) [en-prog-2020-minsbim]

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:

- transform a prerequisite into a corequisite within the same year (to enable the student to continue his or her studies with a sufficient annual course load)
- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.

For more information, please consult the [Academic Regulations and Procedures](https://uclouvain.be/fr/decouvrir/rgee.html) (<https://uclouvain.be/fr/decouvrir/rgee.html>).

Prerequisites list

- LANGL1855** "Anglais médical" has prerequisite(s) LANGL1854
- LANGL1854 - Medical English
- WFARM1212** "Éléments de physiologie générale" has prerequisite(s) WMD1102 ET WMD1120P ET WMD1006
- WMD1102 - Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)
 - WMD1120P - Biologie générale et approche expérimentale de la biologie (partim biologie générale)
 - WMD1006 - Cytology and general histology
- WFARM1213** "Physiologie des systèmes et éléments de physiopathologie" has prerequisite(s) WMD1120P ET WMD1006 ET WFARM1009
- WMD1120P - Biologie générale et approche expérimentale de la biologie (partim biologie générale)
 - 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 ET WMD1006
- WMD1106 - ORGANIC CHEMISTRY
 - WMD1120P - Biologie générale et approche expérimentale de la biologie (partim biologie générale)
 - WMD1006 - Cytology and general histology
- WFARM1231** "Structure et stratégie de synthèse des médicaments" has prerequisite(s) WMD1105 ET WMD1106 ET WFARM1003 ET WFARM1004
- WMD1105 - Chimie générale et minérale
 - WMD1106 - ORGANIC CHEMISTRY
 - WFARM1003 - Practicals of general chemistry approach
 - WFARM1004 - The molecular aspect of drugs
- WFARM1232** "Pharmacologie générale" has prerequisite(s) WMD1120P
- WMD1120P - Biologie générale et approche expérimentale de la biologie (partim biologie générale)
- WFARM1237** "Introduction botanique à la pharmacognosie 1re partie" has prerequisite(s) WMD1105 ET WMD1120P ET WMD1006
- WMD1105 - Chimie générale et minérale
 - WMD1120P - Biologie générale et approche expérimentale de la biologie (partim biologie générale)
 - WMD1006 - Cytology and general histology
- WFARM1238** "Introduction botanique à la pharmacognosie 2e partie" has prerequisite(s) WMD1105 ET WMD1120P ET WMD1006
- WMD1105 - Chimie générale et minérale
 - WMD1120P - Biologie générale et approche expérimentale de la biologie (partim biologie générale)
 - WMD1006 - Cytology and general histology
- 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) WMD1105 ET WMD1106 ET WFARM1003
- 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) WMD1105 ET WMD1106 ET WFARM1003
- WMD1105 - Chimie générale et minérale
 - WMD1106 - ORGANIC CHEMISTRY

- WFARM1003 - [Practicals of general chemistry approach](#)

WFARM1247 "Traitement statistique des données" has prerequisite(s) LANGL1854

 - LANGL1854 - [Medical English](#)
- WFARM1282** "Microbiologie générale" has prerequisite(s) WMD1120P ET WMD1006

 - WMD1120P - [Biologie générale et approche expérimentale de la biologie \(partim biologie générale\)](#)
 - WMD1006 - [Cytology and general histology](#)
- WFARM1290** "Communication professionnelle en santé" has prerequisite(s) WFARM1160

 - WFARM1160 - [Philosophy](#)
- WFARM1300** "Pharmacocinétique et métabolisme des xénobiotiques" has prerequisite(s) WMD1102 ET WMD1106 ET WFARM1221 ET WFARM1212 ET WFARM1213 ET WFARM1232

 - WMD1102 - [Physique expérimentale et introduction mathématique aux sciences expérimentales \(1e partie\)](#)
 - WMD1106 - [ORGANIC CHEMISTRY](#)
 - WFARM1221 - [Biochemistry and molecular biology](#)
 - WFARM1212 - [Eléments de physiologie générale](#)
 - WFARM1213 - [Human physiology and basics of physiopathology](#)
 - WFARM1232 - [General Pharmacology](#)
- WFARM1302** "Chimie pharmaceutique" has prerequisite(s) WFARM1008 ET WFARM1231 ET WFARM1232 ET WFARM1219

 - WFARM1008 - [Design of the drug](#)
 - WFARM1231 - [Organical chemistry of drugs](#)
 - WFARM1232 - [General Pharmacology](#)
 - WFARM1219 - [Biophysics applied to the drugs](#)
- WFARM1303** "Biochimie médicale" has prerequisite(s) WMD1006 ET WFARM1231 ET WFARM1221

 - WMD1006 - [Cytology and general histology](#)
 - WFARM1231 - [Organical chemistry of drugs](#)
 - WFARM1221 - [Biochemistry and molecular biology](#)
- WFARM1305** "Eléments de pathologie humaine" has prerequisite(s) WMD1006 ET WFARM1009 ET WFARM1221 ET WFARM1212 ET WFARM1213

 - WMD1006 - [Cytology and general histology](#)
 - WFARM1009 - [Elements of general and functional anatomy](#)
 - 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) WMD1102 ET WMD1104 ET WMD1105 ET WMD1106

 - 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](#)
 - WMD1106 - [ORGANIC CHEMISTRY](#)
- WFARM1309** "Stage d'immersion professionnelle dans le monde pharmaceutique" has prerequisite(s) WFARM1239 ET WFARM1232

 - 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) WMD1102 ET WMD1104 ET WFARM1243 ET WFARM1219

 - WMD1102 - [Physique expérimentale et introduction mathématique aux sciences expérimentales \(1e partie\)](#)
 - WMD1104 - [Physique expérimentale et introduction mathématique aux sciences expérimentales \(2e partie\)](#)
 - WFARM1243 - [Introduction à la chimie analytique](#)
 - WFARM1219 - [Biophysics applied to the drugs](#)
- WFARM1311** "Projet expérimental en sciences pharmaceutiques" has prerequisite(s) LANGL1855 ET WFARM1247 ET WFARM1239

 - LANGL1855 - [Medical English](#)
 - WFARM1247 - [Traitement statistique des données](#)
 - WFARM1239 - [Computerized workshop and research on scientific information related to drugs.](#)
- WFARM1312** "Analyse instrumentale appliquée aux sciences pharmaceutiques" has prerequisite(s) WFARM1243 ET WFARM1244 ET WFARM1231 ET WFARM1219

 - WFARM1243 - [Introduction à la chimie analytique](#)
 - WFARM1244 - [Travaux pratiques d'introduction à la chimie analytique](#)
 - WFARM1231 - [Organical chemistry of drugs](#)
 - WFARM1219 - [Biophysics applied to the drugs](#)
- WFARM1313** "Travaux pratiques d'analyse instrumentale" has prerequisite(s) WFARM1243 ET WFARM1244 ET WFARM1231 ET WFARM1219

 - WFARM1243 - [Introduction à la chimie analytique](#)
 - WFARM1244 - [Travaux pratiques d'introduction à la chimie analytique](#)
 - WFARM1231 - [Organical chemistry of drugs](#)

- WFARM1219 - [Biophysics applied to the drugs](#)
- WFARM1319** "[Pharmacognosie-étude de cas](#)" has prerequisite(s) WFARM1243 ET WFARM1221 ET WFARM1213 ET WFARM1232 ET WFARM1237 ET WFARM1238
 - WFARM1243 - [Introduction à la chimie analytique](#)
 - WFARM1221 - [Biochemistry and molecular biology](#)
 - WFARM1213 - [Human physiology and basics of physiopathology](#)
 - WFARM1232 - [General Pharmacology](#)
 - WFARM1237 - [Introduction botanique à la pharmacognosie 1re partie](#)
 - WFARM1238 - [Introduction botanique à la pharmacognosie 2e partie](#)
- WFARM1324** "[Pharmacognosie générale](#)" has prerequisite(s) WFARM1243 ET WFARM1221 ET WFARM1213 ET WFARM1282 ET WFARM1237 ET WFARM1238
 - WFARM1243 - [Introduction à la chimie analytique](#)
 - WFARM1221 - [Biochemistry and molecular biology](#)
 - WFARM1213 - [Human physiology and basics of physiopathology](#)
 - WFARM1282 - [General microbiology](#)
 - WFARM1237 - [Introduction botanique à la pharmacognosie 1re partie](#)
 - WFARM1238 - [Introduction botanique à la pharmacognosie 2e partie](#)
- WFARM1329** "[Compléments d'analyse instrumentale](#)" has prerequisite(s) WFARM1243
 - WFARM1243 - [Introduction à la chimie analytique](#)
- WFARM1332** "[Pharmacologie générale, 2e partie](#)" has prerequisite(s) WMD1006 ET WFARM1221 ET WFARM1212 ET WFARM1213 ET WFARM1232
 - WMD1006 - [Cytology and general histology](#)
 - WFARM1221 - [Biochemistry and molecular biology](#)
 - WFARM1212 - [Eléments de physiologie générale](#)
 - WFARM1213 - [Human physiology and basics of physiopathology](#)
 - WFARM1232 - [General Pharmacology](#)
- WFARM1339** "[Compléments de pharmacocinétique](#)" has prerequisite(s) WMD1102 ET WMD1106 ET WFARM1221 ET WFARM1212 ET WFARM1213 ET WFARM1232
 - WMD1102 - [Physique expérimentale et introduction mathématique aux sciences expérimentales \(1e partie\)](#)
 - WMD1106 - [ORGANIC CHEMISTRY](#)
 - WFARM1221 - [Biochemistry and molecular biology](#)
 - WFARM1212 - [Eléments de physiologie générale](#)
 - WFARM1213 - [Human physiology and basics of physiopathology](#)
 - WFARM1232 - [General Pharmacology](#)
- WFARM1349** "[Séminaire intégré en sciences pharmaceutiques](#)" has prerequisite(s) WFARM1243 ET WFARM1231 ET WFARM1213 ET WFARM1232 ET WFARM1239
 - WFARM1243 - [Introduction à la chimie analytique](#)
 - WFARM1231 - [Organical chemistry of drugs](#)
 - WFARM1213 - [Human physiology and basics of physiopathology](#)
 - WFARM1232 - [General Pharmacology](#)
 - WFARM1239 - [Computerized workshop and research on scientific information related to drugs.](#)
- WFARM1359** "[Drug design en chimie pharmaceutique](#)" has prerequisite(s) WFARM1231
 - WFARM1231 - [Organical chemistry of 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
 - LANGL1855 - [Medical English](#)
- WFARM1379** "[Exercices pratiques de biochimie médicale](#)" has prerequisite(s) WMD1006 ET WFARM1221
 - WMD1006 - [Cytology and general histology](#)
 - WFARM1221 - [Biochemistry and molecular biology](#)
- WFARM1380** "[Stage d'immersion en recherche pharmaceutique](#)" has prerequisite(s) LANGL1855 ET WFARM1247 ET WFARM1239
 - LANGL1855 - [Medical English](#)
 - WFARM1247 - [Traitement statistique des données](#)
 - WFARM1239 - [Computerized workshop and research on scientific information related to drugs.](#)
- WFARM1383** "[Génétique et biotechnologie pharmaceutiques](#)" has prerequisite(s) WMD1120P ET WFARM1221
 - WMD1120P - [Biologie générale et approche expérimentale de la biologie \(partim biologie générale\)](#)
 - WFARM1221 - [Biochemistry and molecular biology](#)

The programme's courses and learning outcomes

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework

of learning outcomes in the document "In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?"

Programme type

FARM1BA - 1ST ANNUAL UNIT

○ Mandatory

△ Courses not taught during 2020-2021

⊕ Periodic courses taught during 2020-2021

⊗ Optional

⊖ Periodic courses not taught during 2020-2021

■ Activity with requisites

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

○ Majeure

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

○ WMD1102	Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)	Eduardo Cortina Gil	60h+21h	8 Credits	q1
○ WMD1104	Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)	Michel Herquet (compensates Fabio Maltoni)	30h+21h	5 Credits	q2
○ WMD1105	Chimie générale et minérale	Mark Rider (coord.) Alexandru Vlad	60h+30h	9 Credits	q1
○ WMD1106	ORGANIC CHEMISTRY	Olivier Riant Michael Singleton	60h+30h	9 Credits	q2
○ WFARM1003	Practicals of general chemistry approach	Mark Rider	0h+30h	2 Credits	q2

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

○ WMD1120P	Biologie générale et approche expérimentale de la biologie (partim biologie générale)		65h+25h	9 Credits	q1
○ WMD1006	Cytology and general histology	Christophe Pierreux	10h+40h	5 Credits	q2
○ WFARM1009	Elements of general and functional anatomy	Christine Galant (coord.) Pierre Gianello Alain Poncelet	30h	3 Credits	q2

○ Du médicament

○ WFARM1004	The molecular aspect of drugs	Mohamed Ayadim Raphaël Frédérick (coord.)	15h+15h	2 Credits	q2
○ WFARM1008	Design of the drug	Giulio Muccioli Véronique Préat (coord.)	15h+15h	2 Credits	q2

○ L'homme et la société, l'individu dans le monde professionnel

○ WFARM1160	Philosophy	Fabio Bruschi (compensates Mylene Botbol)	30h	3 Credits	q1
○ LANGL1854	Medical English	Auréli Deneumoustier Charlotte Diaz (compensates Ariane Halleux) Carlo Lefevre (coord.) Laura Lievens (compensates Ariane Halleux) Lucille Meyers	30h	3 Credits	q2

FARM1BA - 2ND ANNUAL UNIT

○ Mandatory

△ Courses not taught during 2020-2021

⊕ Periodic courses taught during 2020-2021

⊗ Optional

⊖ Periodic courses not taught during 2020-2021

■ Activity with requisites

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	Introduction à la chimie analytique ■	Marie-France Herent Giulio Muccioli (coord.)	30h	3 Credits	q2
○ WFARM1244	Travaux pratiques d'introduction à la chimie analytique ■	Marie-France Herent Giulio Muccioli (coord.)	0h+105h	3 Credits	q2
○ WFARM1231	Organical chemistry of drugs ■	Mohamed Ayadim Raphaël Frédéric (coord.)	45h+120h	10 Credits	q1+q2
○ WFARM1221	Biochemistry and molecular biology ■	Nathalie Delzenne (coord.) Frédéric Lemaigre Marie-Paule Mingeot	75h +37.5h	10 Credits	q1

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

○ WFARM1212	Eléments de physiologie générale ■	Olivier Feron	15h+7.5h	2 Credits	q1
○ WFARM1213	Human physiology and basics of physiopathology ■	Olivier Feron (coord.) Emmanuel Hermans Philippe Lysy	60h	6 Credits	q2
○ WFARM1282	General microbiology ■	Thomas Michiels	20h+15h	3 Credits	q1

o Du médicament

○ WFARM1232	General Pharmacology ■	Emmanuel Hermans	15h+7.5h	2 Credits	q1
○ WFARM1237	Introduction botanique à la pharmacognosie 1re partie ■	Stephan Declercq Muriel Quinet (coord.)	22.5h +15h	3 Credits	q1
○ WFARM1238	Introduction botanique à la pharmacognosie 2e partie ■	Joëlle Leclercq Muriel Quinet (coord.)	22.5h +15h	3 Credits	q2

⊗ Additional module in Pharmacy**o Deuxième bloc annuel de bachelier**

○ LANGL1855	Medical English ■	Timothy Byrne (coord.) Auréli Deneumoustier Carlo Lefevre (coord.) Mark Theodore Pertuit	30h	3 Credits	q1 or q2
○ WFARM1219	Biophysics applied to the drugs ■	Bernard Gallez (coord.) Marie-Paule Mingeot	30h+15h	3 Credits	q1
○ WFARM1247	Traitement statistique des données ■	Eugen Pircalabelu	15h+15h	3 Credits	q2
○ WFARM1239	Computerized workshop and research on scientific information related to drugs. ■	Laure Bindels	5h+10h	2 Credits	q1
○ WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Séverine Henrard	20h	2 Credits	q2
○ WFARM1290	Communication professionnelle en santé ■	Olivier Costa Muriel Rocour (coord.) Stephan Van den Broucke	15h+10h	2 Credits	q2

⊗ Approfondissement en sciences pharmaceutiques - recherche**o Deuxième bloc annuel de bachelier****o Cours obligatoires**

○ LANGL1855	Medical English 🟡	Timothy Byrne (coord.) Aurélie Deneumoustier Carlo Lefevre (coord.) Mark Theodore Pertuit	30h	3 Credits	q1 or q2
○ WFARM1219	Biophysics applied to the drugs 🟡	Bernard Gallez (coord.) Marie-Paule Mingeot	30h+15h	3 Credits	q1
○ WFARM1247	Traitement statistique des données 🟡	Eugen Pircalabelu	15h+15h	3 Credits	q2
○ WFARM1239	Computerized workshop and research on scientific information related to drugs. 🟡	Laure Bindels	5h+10h	2 Credits	q1
○ WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Séverine Henrard	20h	2 Credits	q2
○ WFARM1290	Communication professionnelle en santé 🟡	Olivier Costa Muriel Rocour (coord.) Stephan Van den Broucke	15h+10h	2 Credits	q2

○ *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.

FARM1BA - 3RD ANNUAL UNIT

○ Mandatory

△ Courses not taught during 2020-2021

⊕ Periodic courses taught during 2020-2021

⊗ Optional

⊖ Periodic courses not taught during 2020-2021

■ Activity with requisites

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	Analyse instrumentale appliquée aux sciences pharmaceutiques ■	Marie-France Herent Giulio Muccioli (coord.)	30h	3 Credits	q1
○ WFARM1313	Travaux pratiques d'analyse instrumentale ■	Marie-France Herent Giulio Muccioli (coord.)	0h+105h	3 Credits	q1
○ WFARM1383	Génétique et biotechnologie pharmaceutiques ■	Laure Bindels Jean-François Collet Jean Baptiste Demoulin (coord.) Sophie Lucas	30h	2 Credits	q2

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.)	30h	3 Credits	q2
○ WFARM1306	Medical microbiology ■	Benoît Kabamba-Mukadi Hector Rodriguez- Villalobos (coord.) Alexia Verroken	45h	4 Credits	q1
○ WSBIM1334F	Immunologie générale (partim FARM)	Pierre Coulie (coord.)	35h	3 Credits	q1
○ WFARM1303	Clinical Chemistry ■	Catherine Fillee Damien Gruson Vincent Haufroid (coord.) Marie-Astrid van Dievoet	20h	2 Credits	q2

o Du médicament

○ WFARM1302	Pharmaceutical organic chemistry ■	Raphaël Frédéric (coord.) Didier Lambert	45h+30h	6 Credits	q1+q2
○ WFARM1307	Physical pharmacy ■	Tom Leysens	15h	2 Credits	q2
○ WFARM1332	Pharmacologie générale, 2e partie ■	Chantal Dessy Marie-Paule Mingeot	36h	4 Credits	q1
○ WFARM1324	Pharmacognosy ■	Joëlle Leclercq	22.5h +15h	3 Credits	q1
○ WFARM1325	Pharmacognosie : plantes médicinales	Joëlle Leclercq	22.5h +15h	3 Credits	q2
○ WFARM1300	Pharmacocinétique et métabolisme des xénobiotiques ■	Laure Bindels (compensates Nathalie Delzenne) Laure Elens	30h+30h	4 Credits	q1
○ WFARM1310	Inorganic drugs with use diagnosis and therapeutic ■	Bernard Gallez	30h	3 Credits	q1

⊗ Additional module in Pharmacy**o Troisième bloc annuel de bachelier**

Dans le cadre du complément à la majeure en bloc annuel 3, l'étudiant choisit soit de poursuivre l'approfondissement débuté en 2e bloc annuel, soit de bifurquer de l'approfondissement en sciences pharmaceutiques vers l'approfondissement en sciences pharmaceutiques - recherche, soit de réaliser une partie de sa formation à l'étranger (Erasmus).

⊗ Poursuite de l'approfondissement (9 crédits obligatoires et 6 crédits au choix)

○ WFARM1309	Internships in the pharmaceutical world ■	Marie-Paule Mingeot (coord.) Giulio Muccioli Stéphanie Quennery Rita Vanbever Pierre Wallemacq	7.5h	5 Credits	q2
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○ WFARM1349	Integrated Seminar in Pharmaceutical Sciences	Raphaël Frédéric Emmanuel Hermans (coord.) Bénédicte Jordan Marie-Paule Mingeot Giulio Muccioli	45h	4 Credits	q2
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○ Cours au choix de l'approfondissement

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

⊗ WFARM1319	Pharmacognosy, case studies	Joëlle Leclercq	15h	2 Credits	q2
⊗ WFARM1329	Advanced instrumental analysis	Marie-France Herent Giulio Muccioli (coord.)	20h+10h	2 Credits	q2
⊗ WFARM1339	Compléments de pharmacocinétique	Laure Elens	15h	2 Credits	q2
⊗ WFARM1359	Drug design en chimie pharmaceutique	Raphaël Frédéric (coord.) Didier Lambert	15h	2 Credits	q2
⊗ WFARM1369	Evaluation de la biodistribution et de l'effet d'un médicament par des méthodes non invasives	Bernard Gallez	15h	2 Credits	q2
⊗ WFARM1379	Seminars of Clinical Chemistry	Joseph Dewulf Catherine Fillee Damien Gruson (coord.) Vincent Haufroid Diane Maisin	0h+30h	2 Credits	q2
⊗ WFARM1370	Formation à la communication scientifique	Timothy Byrne (coord.) Olivia Dalleur	15h+30h	4 Credits	q2

⊗ 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.

⊗ Approfondissement en sciences pharmaceutiques - recherche

○ Troisième bloc annuel de bachelier

Dans le cadre de la mineure d'approfondissement en sciences pharmaceutiques - recherche, l'étudiant est tenu de choisir l'une des deux possibilités suivantes. Un transfert vers le programme de l'approfondissement en sciences pharmaceutiques est toutefois possible.

○ WFARM1380	Stage d'immersion en recherche pharmaceutique			7 Credits	q2
○ WFARM1311	Projet expérimental en sciences pharmaceutiques			8 Credits	q2

⊗ 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.

○ 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.

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](#)
- [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](https://uclouvain.be/fr/etudier/inscriptions/examens-admission.html) (https://uclouvain.be/fr/etudier/inscriptions/examens-admission.html) 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 of 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.

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 (<https://uclouvain.be/fr/facultes/ep/examenadmission.html>).

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) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).

- 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). (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>)

- 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) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).

- 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). (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>)

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) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).

Teaching method

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

The evaluation methods comply with the regulations concerning studies and exams (<https://uclouvain.be/fr/decouvrir/rgee.html>). 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.

Possible trainings at the end of the programme

Positioning of the programme within the University cursus

The bachelor's degree entitles access to the master's of Pharmaceutical Sciences. Complementary masters with a professional vocation are organised in the practice of industrial pharmacy, clinical biology, hospital pharmacy, clinical hospital pharmacy, pharmaceutical technology.

Other studies accessible upon completion of the programme

Other masters within the Faculty of Medicine, as well as some programmes from other faculties, may be accessible subject to certain prerequisites.

Contacts

Curriculum Management

Entity

Structure entity

SSS/FASB/FARM

Denomination

(FARM)

Faculty

Faculty of Pharmacy and Biomedical Sciences (FASB)

Sector

Health Sciences (SSS)

Acronym

FARM

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