UCLouvain

FARM1BA

2019 - 2020

Bachelor in Pharmacy

At Bruxelles Woluwe - 180 credits - 3 years - Day schedule - In french
Dissertation/Graduation Project : **NO** - Internship : **NO**
Activities in English: **NO** - Activities in other languages : **NO**
Activities on other sites : **NO**
Main study domain : **Sciences biomédicales et pharmaceutiques**
Organized by: **Faculté de pharmacie et des sciences biomédicales (FASB)**
Programme acronym: **farm1ba** - Francophone Certification Framework: 6

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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.

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 Detailled programme

Programme by subject

Majeure (150 credits)

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

						Year 1	Year 2	Year 3
WMD1102	Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)	Eduardo Cortina Gil	60h+21h	8 Credits	1q	x		
WMD1104	Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)	Michel Herquet (compensates Fabio Maltoni) Fabio Maltoni	30h+21h	5 Credits	2q	x		
WMD1105	Chimie générale et minérale	Mark Rider (coord.) Alexandru Vlad	60h+30h	9 Credits	1q	x		
WMD1106	ORGANIC CHEMISTRY	Mohamed Ayadim Olivier Riant Michael Singleton	60h+30h	9 Credits	2q	x		
WFARM1003	Practicals of general and inorganic chemistry	Mark Rider	0h+30h	2 Credits	2q	x		
WFARM1243	Introduction à la chimie analytique (Théorie)	Marie-France Herent Giulio Muccioli (coord.)	30h	3 Credits	2q		x	
WFARM1244	Travaux pratiques d'introduction à la chimie analytique	Marie-France Herent Giulio Muccioli (coord.)	0h+105h	3 Credits	2q		x	
WFARM1231	Organical chemistry Part 2	Mohamed Ayadim Raphaël Frédérick (coord.)	45h+120h	10 Credits			x	
WFARM1221	Biochemistry and molecular biology	Nathalie Delzenne (coord.) Frédéric Lemaigre Marie-Paule Mingeot	75h +37.5h	10 Credits	1q		x	
WFARM1312	Analyse instrumentale (Théorie)	Marie-France Herent Giulio Muccioli (coord.)	30h	3 Credits	1q			x
WFARM1313	Travaux pratiques d'analyse instrumentale	Marie-France Herent Giulio Muccioli (coord.)	0h+105h	3 Credits	1q			x
WFARM1383	Génétique et biotechnologie pharmaceutiques	Laure Bindels Jean-François Collet Jean Baptiste Demoulin (coord.) Sophie Lucas	30h	2 Credits	2q			x

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

WMD1120P	Biologie générale et approche expérimentale de la biologie (partim biologie générale)	Charles De Smet Jean Baptiste Demoulin (coord.)	65h+25h	9 Credits	1q	x		
WMD1006	Cytology and general histology	Christophe Pierreux	10h+40h	5 Credits	2q	x		
WFARM1009	Elements of general and functional anatomy	Christine Galant (coord.) Pierre Gianello Alain Poncelet	30h	3 Credits	2q	x		
WFARM1212	Eléments de physiologie générale	Olivier Feron	15h+7.5h	2 Credits	1q		x	
WFARM1213	Human physiology and basics of physiopathology	Olivier Feron (coord.) Emmanuel Hermans Philippe Lysy	60h	6 Credits	2q		x	
WFARM1282	General microbiology	Thomas Michiels	20h+15h	3 Credits	1q		x	

						Year 1	2	3
WFARM1305	Elements of General Pathology	Diego Castanares Zapatero (compensates Stéphane Moniotte) Olivier Feron (coord.) Stéphane Moniotte (coord.)	30h	3 Credits	2q			x
WFARM1306	Medical microbiolgy	Benoît Kabamba-Mukadi Hector Rodriguez-Villalobos (coord.) Anne Simon Alexia Verroken	45h	4 Credits	1q			x
WSBIM1334F	Immunologie générale (partim FARM)	Pierre Coulie (coord.)	35h	3 Credits	1q			x
WFARM1303	Clinical Chemistry	Jean-Philippe Defour Catherine Fillee Damien Gruson Vincent Haufroid (coord.) Teresinha Leal	20h	2 Credits	1q			x

Du médicament (37 credits)

WFARM1004	The molecular aspect of drugs	Mohamed Ayadim Raphaël Frédérick (coord.)	15h+15h	2 Credits	2q	x		
WFARM1008	Design of the drug	Giulio Muccioli Véronique Préat (coord.)	15h+15h	2 Credits	2q	x		
WFARM1232	General Pharmacology	Emmanuel Hermans	15h+7.5h	2 Credits	1q		x	
WFARM1237	Introduction botanique à la pharmacognosie 1re partie	Stephan Declerck Muriel Quinet (compensates François Chaumont)	22.5h +15h	3 Credits	1q		x	
WFARM1238	Introduction botanique à la pharmacognosie 2e partie	Joëlle Leclercq Muriel Quinet	22.5h +15h	3 Credits	2q		x	
WFARM1302	Pharmaceutical organic chemistry	Raphaël Frédérick (coord.) Didier Lambert	45h+30h	6 Credits	1 + 2q			x
WFARM1307	Physical pharmacy	Tom Leyssens	15h	2 Credits	1q			x
WFARM1332	Pharmacologie générale, 2e partie	Chantal Dessy Marie-Paule Mingeot	36h	4 Credits	1q			x
WFARM1304	Pharmacognosy : a) phytochemistry - b) medicinal plants	Joëlle Leclercq	45h+30h	6 Credits	2q			x
WFARM1300	Pharmacocinétique et métabolisme des xénobiotiques	Laure Bindels (compensates Nathalie Delzenne) Nathalie Delzenne Laure Elens	30h+30h	4 Credits	1q			x
WFARM1310	Inorganic drugs with use diagnosis and therapeutic	Bernard Gallez	30h	3 Credits	2q			x

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

WFARM1160	Philosophy	Mylene Botbol Fabio Bruschi (compensates Mylene Botbol)	30h	3 Credits	1q	x		
LANGL1854	Medical English	Aurélie Deneumoustier Maïté Dupont (compensates Aurélie Deneumoustier) Ariane Halleux Carlo Lefevre (coord.) Lucille Meyers Mark Theodore Pertuit Nevin Serbest	30h	3 Credits	2q	x		

Additionnal module in Pharmacy (30 credits)

Programme pour les étudiants qui ont choisit l'approfondissement en sciences pharmaceutiques

Deuxième bloc annuel de bachelier

L'étudiant est tenu de suivre les cours suivants

						Year 1	2	3
LANGL1855	Medical English	Timothy Byrne (coord.) Aurélie Deneumoustier Carlo Lefevre (coord.) Mark Theodore Pertuit (compensates Timothy Byrne)	30h	3 Credits	1 ou 2q		x	
WFARM1219	Biophysics applied to the drugs	Bernard Gallez (coord.) Marie-Paule Mingeot	30h+15h	3 Credits	1q		x	
WFARM1247	Traitement statistique des données	Céline Bugli (compensates Eugen Pircalabelu) Eugen Pircalabelu	15h+15h	3 Credits	2q		x	
WFARM1239	Computerized workshop and research on scientific information related to drugs.	Laure Bindels	5h+10h	2 Credits	1q		x	
WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Séverine Henrard	20h	2 Credits	2q		x	
WMDS1116G	Psychologie générale et médicale (partim psychologie générale)		15h	2 Credits	2q		x	

Troisième bloc annuel de bachelier

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

Poursuite de l'approfondissement (15 credits)

WFARM1309	Introduction to the pharmaceutical world, including internships	Valérie Lacour Marie-Paule Mingeot (coord.) Giulio Muccioli Stéfanie Quennery Rita Vanbever Pierre Wallemacq	7.5h	5 Credits	2q			x
WFARM1349	Integrated Seminar in Pharmaceutical Sciences	Nathalie Delzenne Raphaël Frédérick Emmanuel Hermans (coord.) Bénédicte Jordan Didier Lambert Marie-Paule Mingeot	45h	4 Credits	2q			x

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

L'étudiant choisit des cours dans la liste ci-dessous pour une valeur de 6 crédits. Ces cours spécifiques de la filière en sciences pharmaceutiques permet à l'étudiant d'approfondir ses acquis dans divers domaines relatifs entre autres au développement, à l'analyse et à la pharmacocinétique des médicaments d'origine synthétique ou naturelle.

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

Formation minimale à l'étranger (15 credits)

L'étudiant qui réalise une partie de son parcours à l'étranger (de l'ordre de 30 crédits) pourra intégrer une partie de ce parcours dans son programme, en lieu et place des 15 crédits de l'approfondissement en sciences pharmaceutiques.

WFARM1399	Formation minimale à l'étranger (ERASMUS)			15 Credits				x

Year
1 2 3

Approfondissement en sciences pharmaceutiques - recherche (30 credits)

Programme pour les étudiants qui ont choisit l'approfondissement en sciences pharmaceutiques - Recherche

Deuxième bloc annuel de bachelier (15 credits)

Cours obligatoires

L'étudiant est tenu de suivre les cours suivants.

LANGL1855	Medical English	Timothy Byrne (coord.) Aurélie Deneumoustier Carlo Lefevre (coord.) Mark Theodore Pertuit (compensates Timothy Byrne)	30h	3 Credits	1 ou 2q		x	
WFARM1219	Biophysics applied to the drugs	Bernard Gallez (coord.) Marie-Paule Mingeot	30h+15h	3 Credits	1q		x	
WFARM1247	Traitement statistique des données	Céline Bugli (compensates Eugen Pircalabelu) Eugen Pircalabelu	15h+15h	3 Credits	2q		x	
WFARM1239	Computerized workshop and research on scientific information related to drugs.	Laure Bindels	5h+10h	2 Credits	1q		x	
WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Séverine Henrard	20h	2 Credits	2q		x	
WMDS1116G	Psychologie générale et médicale (partim psychologie générale)		15h	2 Credits	2q		x	

Troisième bloc annuel de bachelier (15 credits)

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	Introduction à la recherche pharmaceutique y compris stage			7 Credits	2q			x
WFARM1311	Projet expérimental personnel			8 Credits	2q			x

Formation minimale à l'étranger (15 credits)

L'étudiant qui réalise une partie de son parcours à l'étranger (de l'ordre de 30 crédits) pourra intégrer une partie de ce parcours dans son programme, en lieu et place des 15 crédits de l'approfondissement en sciences pharmaceutiques.

WFARM1399	Formation minimale à l'étranger (ERASMUS)			15 Credits				x

Mineure (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.

	Mineure d'ouverture *Voir la liste ci-dessous.*			15 Credits			x	
	Mineure d'ouverture *L'étudiant poursuit la mineure d'ouverture choisie en 2e bloc annuel dans la liste ci-dessous.*			15 Credits				x

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.

> Additionnal module in Pharmacy [https://www.uclouvain.be/en-prog-2019-app-wfarm100p]
> Approfondissement en sciences pharmaceutiques - recherche [https://www.uclouvain.be/en-prog-2019-app-wfarr100p]
> Minor in Economics [https://www.uclouvain.be/en-prog-2019-min-lecon100i]
> Minor in Antiquity: Egypt, Eastern World, Greece, Rome [https://www.uclouvain.be/en-prog-2019-min-lanti100i]
> Minor in Arabic language and Islamic civilization [https://www.uclouvain.be/en-prog-2019-min-lisla100i]
> Minor in Biomedicine (openness) [https://www.uclouvain.be/en-prog-2019-min-wsbim100i]
> Minor in Chinese studies [https://www.uclouvain.be/en-prog-2019-min-lchin100i]
> Minor in Christian Theology [https://www.uclouvain.be/en-prog-2019-min-ltheo100i]
> Minor in Culture and Creation [https://www.uclouvain.be/en-prog-2019-min-lcucr100i]
> Minor in Development and Environment [https://www.uclouvain.be/en-prog-2019-min-ldenv100i]
> Minor in Economics (open) [https://www.uclouvain.be/en-prog-2019-min-loeco100i]
> Minor in Education [https://www.uclouvain.be/en-prog-2019-min-lfopa100i]
> Minor in European Studies [https://www.uclouvain.be/en-prog-2019-min-leuro100i]
> Minor in French Studies [https://www.uclouvain.be/en-prog-2019-min-lfran100i]
> Minor in Gender Studies [https://www.uclouvain.be/en-prog-2019-min-lgenr100i]
> Minor in Geography [https://www.uclouvain.be/en-prog-2019-min-lgeog100i]
> Minor in History [https://www.uclouvain.be/en-prog-2019-min-lhist100i]
> Minor in History of Art and Archeology [https://www.uclouvain.be/en-prog-2019-min-larke100i]
> Minor in Human and Social Sciences [https://www.uclouvain.be/en-prog-2019-min-lhuso100i]
> Minor in Information and Communication [https://www.uclouvain.be/en-prog-2019-min-lcomu100i]
> Minor in Information and Communication Studies and Technologies [https://www.uclouvain.be/en-prog-2019-min-lstic100i]
> Minor in Law (access) [https://www.uclouvain.be/en-prog-2019-min-ladrt100i]
> Minor in Law (openness) [https://www.uclouvain.be/en-prog-2019-min-lodrt100i]
> Minor in Linguistics [https://www.uclouvain.be/en-prog-2019-min-lling100i]
> Minor in Literary Studies [https://www.uclouvain.be/en-prog-2019-min-llitt100i]
> Minor in Mangement (basic knowledge) [https://www.uclouvain.be/en-prog-2019-min-lgesa100i]
> Minor in Medieval Studies [https://www.uclouvain.be/en-prog-2019-min-lmedi100i]
> Minor in Musicology [https://www.uclouvain.be/en-prog-2019-min-lmusi100i]
> Minor in Oriental Studies [https://www.uclouvain.be/en-prog-2019-min-lori100i]
> Minor in Philosophy [https://www.uclouvain.be/en-prog-2019-min-lisp100i]
> Minor in Political Sciences [https://www.uclouvain.be/en-prog-2019-min-lspol100i]
> Minor in Population and Development Studies [https://www.uclouvain.be/en-prog-2019-min-lsped100i]
> Minor in Sciences of Religions (openness) [https://www.uclouvain.be/en-prog-2019-min-lreli100i]
> Minor in Scientific Culture [https://www.uclouvain.be/en-prog-2019-min-lcusc100i]
> Minor in Sociology and Anthropology [https://www.uclouvain.be/en-prog-2019-min-lsoca100i]
> Minor in Statistics, Actuarial Sciences and Data Sciences [https://www.uclouvain.be/en-prog-2019-min-lstat100i]

Course prerequisites

A document entitled (nb: not available for this programme farm1ba) specifies the activities (course units - CU) with one or more pre-requisite(s) within the study programme, that is the CU whose learning outcomes must have been certified and for which the credits must have been granted by the jury before the student is authorised to sign up for that activity.

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

As the prerequisites are a requirement of enrolment, there are none within a year of a course.

The prerequisites are defined for the CUs for different years and therefore influence the order in which the student can enrol in the programme's CUs.
In addition, when the panel validates a student's individual programme at the beginning of the year, it ensures the consistency of the individual programme:

- It can change a prerequisite into a corequisite within a single year (to allow studies to be continued with an adequate annual load);
- It can require the student to combine enrolment in two separate CUs it considers necessary for educational purposes.

For more information, please consult regulation of studies and exams (https://uclouvain.be/fr/decouvrir/rgee.html).

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	✕ Optional
△ Courses not taught during 2019-2020	⊘ Periodic courses not taught during 2019-2020
⊕ Periodic courses taught during 2019-2020	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	1q
○ WMD1104	Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)	Michel Herquet (compensates Fabio Maltoni) Fabio Maltoni	30h+21h	5 Credits	2q
○ WMD1105	Chimie générale et minérale	Mark Rider (coord.) Alexandru Vlad	60h+30h	9 Credits	1q
○ WMD1106	ORGANIC CHEMISTRY	Mohamed Ayadim Olivier Riant Michael Singleton	60h+30h	9 Credits	2q
○ WFARM1003	Practicals of general and inorganic chemistry	Mark Rider	0h+30h	2 Credits	2q

○ 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)	Charles De Smet Jean Baptiste Demoulin (coord.)	65h+25h	9 Credits	1q
○ WMD1006	Cytology and general histology	Christophe Pierreux	10h+40h	5 Credits	2q
○ WFARM1009	Elements of general and functional anatomy	Christine Galant (coord.) Pierre Gianello Alain Poncelet	30h	3 Credits	2q

Du médicament

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

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

WFARM1160	Philosophy	Mylene Botbol Fabio Bruschi (compensates Mylene Botbol)	30h	3 Credits	1q
LANGL1854	Medical English	Aurélie Deneumoustier Maïté Dupont (compensates Aurélie Deneumoustier) Ariane Halleux Carlo Lefevre (coord.) Lucille Meyers Mark Theodore Pertuit Nevin Serbest	30h	3 Credits	2q

FARM1BA - 2ND ANNUAL UNIT

○ Mandatory	⊠ Optional
△ Courses not taught during 2019-2020	⊘ Periodic courses not taught during 2019-2020
⊕ Periodic courses taught during 2019-2020	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

○ WFARM1243	Introduction à la chimie analytique (Théorie)	Marie-France Herent Giulio Muccioli (coord.)	30h	3 Credits	2q
○ WFARM1244	Travaux pratiques d'introduction à la chimie analytique	Marie-France Herent Giulio Muccioli (coord.)	0h+105h	3 Credits	2q
○ WFARM1231	Organical chemistry Part 2	Mohamed Ayadim Raphaël Frédérick (coord.)	45h+120h	10 Credits	
○ WFARM1221	Biochemistry and molecular biology	Nathalie Delzenne (coord.) Frédéric Lemaigre Marie-Paule Mingeot	75h +37.5h	10 Credits	1q

○ 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	1q
○ WFARM1213	Human physiology and basics of physiopathology	Olivier Feron (coord.) Emmanuel Hermans Philippe Lysy	60h	6 Credits	2q
○ WFARM1282	General microbiology	Thomas Michiels	20h+15h	3 Credits	1q

○ Du médicament

○ WFARM1232	General Pharmacology	Emmanuel Hermans	15h+7.5h	2 Credits	1q
○ WFARM1237	Introduction botanique à la pharmacognosie 1re partie	Stephan Declerck Muriel Quinet (compensates François Chaumont)	22.5h +15h	3 Credits	1q
○ WFARM1238	Introduction botanique à la pharmacognosie 2e partie	Joëlle Leclercq Muriel Quinet	22.5h +15h	3 Credits	2q

⊠ Additionnal module in Pharmacy

Programme pour les étudiants qui ont choisit l'approfondissement en sciences pharmaceutiques

○ Deuxième bloc annuel de bachelier

L'étudiant est tenu de suivre les cours suivants

○ LANGL1855	Medical English	Timothy Byrne (coord.) Aurélie Deneumoustier Carlo Lefevre (coord.) Mark Theodore Pertuit (compensates Timothy Byrne)	30h	3 Credits	1 ou 2q
○ WFARM1219	Biophysics applied to the drugs	Bernard Gallez (coord.) Marie-Paule Mingeot	30h+15h	3 Credits	1q
○ WFARM1247	Traitement statistique des données	Céline Bugli (compensates Eugen Pircalabelu) Eugen Pircalabelu	15h+15h	3 Credits	2q
○ WFARM1239	Computerized workshop and research on scientific information related to drugs.	Laure Bindels	5h+10h	2 Credits	1q
○ WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Séverine Henrard	20h	2 Credits	2q
○ WMDS1116G	Psychologie générale et médicale (partim psychologie générale)		15h	2 Credits	2q

⊠ Approfondissement en sciences pharmaceutiques - recherche

Programme pour les étudiants qui ont choisit l'approfondissement en sciences pharmaceutiques - Recherche

Deuxième bloc annuel de bachelier

Cours obligatoires

L'étudiant est tenu de suivre les cours suivants.

LANGL1855	Medical English	Timothy Byrne (coord.) Aurélie Deneumoustier Carlo Lefevre (coord.) Mark Theodore Pertuit (compensates Timothy Byrne)	30h	3 Credits	1 ou 2q
WFARM1219	Biophysics applied to the drugs	Bernard Gallez (coord.) Marie-Paule Mingeot	30h+15h	3 Credits	1q
WFARM1247	Traitement statistique des données	Céline Bugli (compensates Eugen Pircalabelu) Eugen Pircalabelu	15h+15h	3 Credits	2q
WFARM1239	Computerized workshop and research on scientific information related to drugs.	Laure Bindels	5h+10h	2 Credits	1q
WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Séverine Henrard	20h	2 Credits	2q
WMDS1116G	Psychologie générale et médicale (partim psychologie générale)		15h	2 Credits	2q

Mineure

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.

	Mineure d'ouverture *Voir la liste ci-dessous.*			15 Credits	

FARM1BA - 3RD ANNUAL UNIT

○ Mandatory	⊠ Optional
△ Courses not taught during 2019-2020	⊘ Periodic courses not taught during 2019-2020
⊕ Periodic courses taught during 2019-2020	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

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

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

○ WFARM1305	Elements of General Pathology	Diego Castanares Zapatero (compensates Stéphane Moniotte) Olivier Feron (coord.) Stéphane Moniotte (coord.)	30h	3 Credits	2q
○ WFARM1306	Medical microbiolgy	Benoît Kabamba-Mukadi Hector Rodriguez-Villalobos (coord.) Anne Simon Alexia Verroken	45h	4 Credits	1q
○ WSBIM1334F	Immunologie générale (partim FARM)	Pierre Coulie (coord.)	35h	3 Credits	1q
○ WFARM1303	Clinical Chemistry	Jean-Philippe Defour Catherine Fillee Damien Gruson Vincent Haufroid (coord.) Teresinha Leal	20h	2 Credits	1q

○ Du médicament

○ WFARM1302	Pharmaceutical organic chemistry	Raphaël Frédérick (coord.) Didier Lambert	45h+30h	6 Credits	1 + 2q
○ WFARM1307	Physical pharmacy	Tom Leyssens	15h	2 Credits	1q
○ WFARM1332	Pharmacologie générale, 2e partie	Chantal Dessy Marie-Paule Mingeot	36h	4 Credits	1q
○ WFARM1304	Pharmacognosy : a) phytochemistry - b) medicinal plants	Joëlle Leclercq	45h+30h	6 Credits	2q
○ WFARM1300	Pharmacocinétique et métabolisme des xénobiotiques	Laure Bindels (compensates Nathalie Delzenne) Nathalie Delzenne Laure Elens	30h+30h	4 Credits	1q
○ WFARM1310	Inorganic drugs with use diagnosis and therapeutic	Bernard Gallez	30h	3 Credits	2q

⊠ Additionnal module in Pharmacy

Programme pour les étudiants qui ont choisit l'approfondissement en sciences pharmaceutiques

○ Troisième bloc annuel de bachelier

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

⊠ Poursuite de l'approfondissement

WFARM1309	Introduction to the pharmaceutical world, including internships	Valérie Lacour Marie-Paule Mingeot (coord.) Giulio Muccioli Stéfanie Quennery Rita Vanbever Pierre Wallemacq	7.5h	5 Credits	2q
WFARM1349	Integrated Seminar in Pharmaceutical Sciences	Nathalie Delzenne Raphaël Frédérick Emmanuel Hermans (coord.) Bénédicte Jordan Didier Lambert Marie-Paule Mingeot	45h	4 Credits	2q

Cours au choix de l'approfondissement FARM

L'étudiant choisit des cours dans la liste ci-dessous pour une valeur de 6 crédits. Ces cours spécifiques de la filière en sciences pharmaceutiques permet à l'étudiant d'approfondir ses acquis dans divers domaines relatifs entre autres au développement, à l'analyse et à la pharmacocinétique des médicaments d'origine synthétique ou naturelle.

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

Formation minimale à l'étranger

L'étudiant qui réalise une partie de son parcours à l'étranger (de l'ordre de 30 crédits) pourra intégrer une partie de ce parcours dans son programme, en lieu et place des 15 crédits de l'approfondissement en sciences pharmaceutiques.

WFARM1399	Formation minimale à l'étranger (ERASMUS)			15 Credits	

Approfondissement en sciences pharmaceutiques - recherche

Programme pour les étudiants qui ont choisit l'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	Introduction à la recherche pharmaceutique y compris stage			7 Credits	2q
WFARM1311	Projet expérimental personnel			8 Credits	2q

Formation minimale à l'étranger

L'étudiant qui réalise une partie de son parcours à l'étranger (de l'ordre de 30 crédits) pourra intégrer une partie de ce parcours dans son programme, en lieu et place des 15 crédits de l'approfondissement en sciences pharmaceutiques.

WFARM1399	Formation minimale à l'étranger (ERASMUS)			15 Credits	

Mineure

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.

	Mineure d'ouverture *L'étudiant poursuit la mineure d'ouverture choisie en 2e bloc annuel dans la liste ci-dessous.*			15 Credits	

FARM1BA - Information

Admission

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 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) 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 (this qualification does not grant exemption from the French language proficiency examination (https://uclouvain.be/en/study/inscriptions/language-requirements.html)), 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 no later than 15 July 2019 to the Equivalence department (Service des équivalences) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium.
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.
These two qualifications do not, however, provide automatic exemption from the French language proficiency examination (https://uclouvain.be/en/study/inscriptions/language-requirements.html).

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 requirements

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

- 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/epl/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-contingentees.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-contingentees.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-contingentees.html).
- Admission to **undergraduate studies in medicine and dental science**

  Admission to undergraduate studies in medecine 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-contingentees.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-contingentees.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 Medecine, as well as some programmes from other faculties, may be accessible subject to certain prerequisites.

Contacts

Attention, you are currently reading an archived page: below contact informations were for program study 2019-2020 only. To get current contact informations please got to current program study site.

Curriculum Management

Entity

Structure entity	SSS/FASB/FARM
Denomination	(FARM) (https://uclouvain.be/repertoires/entites/farm)
Faculty	Faculty of Pharmacy and Biomedical Sciences (FASB) (https://uclouvain.be/repertoires/entites/fasb)
Sector	Health Sciences (SSS) (https://uclouvain.be/repertoires/entites/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: Giulio Muccioli

Other academic Supervisor(s)

- Giulio Muccioli

Jury

- Bernard Gallez
- Giulio Muccioli

Useful Contact(s)

- Fabienne Titeux
- Josiane Toremans
- Delphine Delhaye
- Giulio Muccioli

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