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.

				Year 1	2	3
WFARM1243	Introduction à la chimie analytique	Marie-France Herent Giulio Muccioli (coord.)	FR [q2] [30h] [3 Credits] *> English-friendly*		x	
WFARM1244	Travaux pratiques d'introduction à la chimie analytique	Marie-France Herent Giulio Muccioli (coord.)	FR [q2] [0h+105h] [3 Credits]		x	
WFARM1231	Organical chemistry of drugs	Mohamed Ayadim Raphaël Frédérick (coord.)	FR [q1+q2] [45h+120h] [10 Credits] *> English-friendly*		x	

Year
1 2 3

WFARM1302	Pharmaceutical organic chemistry	Raphaël Frédérick (coord.) Didier Lambert Séverine Ravez (compensates Raphaël Frédérick)	FR

Year
1 2 3

Year
1 2 3

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

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.

- WMD1106 - ORGANIC CHEMISTRY
- WFARM1003 - Practicals of general chemistry approach

WFARM1247 "Traitement statistique des données" has prerequisite(s) WMD1102

- WMD1102 - Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)

WFARM1282 WFe282WFARM1003

Majeure

Des atomes, des molécules et des systèmes qui les régissent

WMD1102	Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)	Fabio Maltoni Geoffroy Piroux	FR [q1] [60h +21h] [8 Credits]
WMD1104	Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)	Michel Herquet	FR [q2] [30h +21h] [5 Credits]
WMD1105	Chimie générale et minérale	Olivier Riant Alexandru Vlad	FR [q1] [60h +30h] [9 Credits]
WMD1106	ORGANIC CHEMISTRY	Mohamed Ayadim Olivier Riant (coord.) Michael Singleton	FR [q2] [60h +30h] [9 Credits]
WFARM1003	Practicals of general chemistry approach	Bernadette Schmitz Alexandru Vlad (coord.)	FR [q2] [0h +30h] [2 Credits]

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

WMD1120P	General biology and an experimental approach to biology	Jean Baptiste Demoulin (coord.)	FR [q1] [65h +25h] [9 Credits] *> English-friendly*
WMD1006	Cytology and general histology	Christophe Pierreux	FR [q2] [10h +40h] [5 Credits]
WFARM1009	Elements of general and functional anatomy	Christine Galant (coord.) Catherine Hubert Alain Poncelet	FR [q2] [30h] [3 Credits]

Du médicament

WFARM1004	The molecular aspect of drugs	Mohamed Ayadim Raphaël Frédérick (coord.)	FR [q2] [15h +15h] [2 Credits] *> English-friendly*
WFARM1008	Design of the drug	Giulio Muccioli	FR [q2] [15h +15h] [2 Credits]

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

WFARM1160	Philosophy	Nicolas Cuneen (compensates Mylene Botbol) Charlotte Luyckx (compensates Mylene Botbol)	FR [q1] [30h] [3 Credits]
LANGL1854	Medical English	Stéphanie Brabant Aurélie Deneumoustier Ariane Halleux Carlo Lefevre (coord.) Hila Peer Mark Theodore Pertuit	EN [q2] [30h] [3 Credits]

⊠ Additionnal module in Pharmacy

○ Deuxième bloc annuel de bachelier

FARM1BA - 3RD ANNUAL UNIT

- Mandatory
- Optional
- Not offered in 2023-2024
- Not offered in 2023-2024 but offered the following year
- Offered in 2023-2024 but not the following year
- Not offered in 2023-2024 or the following year
- Activity with requisites
- Open to incoming exchange students
- Not open to incoming exchange students

[FR]

⊠ WFARM1375	Drugs and sustainable development	Nathalie Delzenne (coord.) Raphaël Frédérick Pauline Modrie Anne Spinewine Sandy Tubeuf Françoise Van Bambeke	FR [q2] [10h +20h] [2 Credits]

⊠ 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

O 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.

O WFARM1380	Stage d'immersion en recherche pharmaceutique		FR [q2] [] [7 Credits] *> English-friendly*
O WFARM1311	Projet expérimental en sciences pharmaceutiques		

- For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your diploma or, at the very least, proof of the filing of the equivalence request with the Wallonia-Brussels Federation (French Community of Belgium). For any information relating to obtaining an equivalence, please refer to the following site.
- For any secondary school diploma **from a country outside the European Union**, the admission application must contain the equivalence of your diploma issued by the Wallonia-Brussels Federation (French Community of Belgium). If you have a restrictive equivalence for the programme of your choice, in addition of it, you **must** have either the DAES or a certificate of successful completion of the examination giving access to 1st cycle studies when you submit your application

Access based on validation of professional experience

Admission to undergraduate studies on the basis of accreditation of knowledge and skills obtained through professional or personal experience (Accreditation of Prior Experience)

Subject to the general requirements laid down by the authorities of the higher education institution, with the aim of admission to the undergraduate programme, the examination boards accredit the knowledge and skills that students have obtained through their professional or personal experience.

This experience must correspond to at least five years of documented activity, with years spent in higher education being partially taken into account: 60 credits are deemed equivalent to one year of experience, with a maximum of two years being counted. At the end of an assessment procedure organized by the authorities of the higher education institution, the Examination Board will decide whether a student has sufficient skills and knowledge to successfully pursue undergraduate studies.

After this assessment, the Examination Board will determine the additional courses and possible exemptions constituting the supplementary requirements for the student's admission.

Special requirements to access some programmes

- Admission to **undergraduate studies in engineering: civil engineering and architect**

  Pass certificate for the special entrance examination for undergraduate studies in engineering: civil engineering and architect (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.

Entity

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

Academic supervisor: Françoise Van Bambeke (https://uclouvain.be/repertoires/francoise.vanbambeke)

Other academic Supervisor(s)

- Giulio Muccioli (https://uclouvain.be/repertoires/giulio.muccioli)

Jury

- Président des 3 années de bachelier: Bernard Gallez (https://uclouvain.be/repertoires/bernard.gallez)
- Secrétaire de jury de la 1re année: Giulio Muccioli (https://uclouvain.be/repertoires/giulio.muccioli)

Useful Contact(s)

- Personne de contact de la 1re année de bachelier: secretariat-bac1-fasb@uclouvain.be
- Personne de contact des 2e et 3e années de bachelier: secretariat-farm@uclouvain.be
- Responsable administrative de la faculté de pharmacie et de sciences biomédicales: Johanne Garny (https://uclouvain.be/repertoires/johanne.garny0 201.55599976 Tm [(Useful Contact(s))] TJ /F 0.e1iJ0iohanne.garny0 2ain.be/2o3. TJ(iulo3. TJ(iulo3. TJ(uclouvaP0rny601