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
Introduction
Learning outcomes

Students enrolled on 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

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

Majeure (150 credits)

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

- **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 Plant Michael Singleton  60h+30h  9 Credits  2q ×

- **WFARM1003**  Practicals of general and inorganic chemistry  Mark Rider  0h+30h  2 Credits  2q ×

- **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 Raphael Frederic (coord.)  45h+120h  10 Credits  1+2q ×
<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Teacher(s)</th>
<th>Credits</th>
<th>Hours</th>
<th>Semester</th>
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<tr>
<td>WFARM1221</td>
<td>Biochemistry and molecular biology</td>
<td>Nathalie Delzenne (coord.), Frédéric Lemaigre Marie-Paule Mingeot</td>
<td>10</td>
<td>75+37.5</td>
<td>1q</td>
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<tr>
<td>WFARM1312</td>
<td>Analyse instrumentale (Théorie)</td>
<td>Marie-France Herent Giulio Muccioli (coord.)</td>
<td>3</td>
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<tr>
<td>WFARM1313</td>
<td>Travaux pratiques d'analyse instrumentale</td>
<td>Marie-France Herent Giulio Muccioli (coord.)</td>
<td>3</td>
<td>0+105</td>
<td>1q</td>
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<tr>
<td>WFARM1383</td>
<td>Génétique et biotechnologie pharmaceutiques</td>
<td>Laure Bindels Jean-François Collet Jean Baptiste Demoulin (coord.) Sophie Lucas</td>
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**De la cellule végétale à la cellule animale, des tissus à l’être humain (40 credits)**

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
<th>Semester</th>
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<tr>
<td>WMD1120P</td>
<td>Biologie générale et approche expérimentale de la biologie (partim biologie générale)</td>
<td>Christophe Pierreux</td>
<td>9</td>
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<tr>
<td>WMD1006</td>
<td>Cytology and general histology</td>
<td>Christine Gaiaart (coord.) Pierre Gianello Alain Poncelet</td>
<td>5</td>
<td>10+40</td>
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<tr>
<td>WFARM1009</td>
<td>Elements of general and functional anatomy</td>
<td>Olivier Feron (coord.)</td>
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<tr>
<td>WFARM1212</td>
<td>Eléments de physiologie générale</td>
<td>Olivier Feron (coord.)</td>
<td>2</td>
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<td>WFARM1213</td>
<td>Human physiology and basics of physiopathology</td>
<td>Olivier Feron (coord.) Emmanuel Hermans Philippe Lysy</td>
<td>6</td>
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<tr>
<td>WFARM1282</td>
<td>General microbiology</td>
<td>Thomas Michiel</td>
<td>1</td>
<td>20+15</td>
<td>1q</td>
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<tr>
<td>WFARM1305</td>
<td>Elements of General Pathology</td>
<td>Diego Castaingares Zapatero (compensates Stéphane Moniotte) Olivier Feron (coord.) Stéphane Moniotte (coord.)</td>
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<td>2q</td>
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<tr>
<td>WFARM1306</td>
<td>Medical microbiology</td>
<td>Benoît Kabamba-Mukadi Hector Rodríguez-Villalobos (coord.) Anne Simon Alexia Verroken</td>
<td>4</td>
<td>45</td>
<td>1q</td>
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<tr>
<td>WSBIM1334F</td>
<td>Immunologie générale (partim FARM)</td>
<td>Pierre Coulie (coord.)</td>
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<td>35</td>
<td>1q</td>
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<tr>
<td>WFARM1303</td>
<td>Clinical Chemistry</td>
<td>Jean-Philippe Defour Catherine Fillee Damien Gruson Vincent Haufroid (coord.) Teresinha Leal</td>
<td>2</td>
<td>20</td>
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**Du médicament (37 credits)**

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<th>Code</th>
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<th>Hours</th>
<th>Semester</th>
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<tr>
<td>WFARM1004</td>
<td>The molecular aspect of drugs</td>
<td>Mohamed Ayadim Raphael Frédérick (coord.)</td>
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<td>WFARM1008</td>
<td>Design of the drug</td>
<td>Giulio Muccioli Véronique Préat (coord.)</td>
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<td>15+15</td>
<td>2q</td>
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<tr>
<td>WFARM1232</td>
<td>General Pharmacology</td>
<td>Emmanuel Hermans</td>
<td>2</td>
<td>15+7.5</td>
<td>1q</td>
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<tr>
<td>WFARM1237</td>
<td>Introduction botanique à la pharmacognosie 1re partie</td>
<td>Stephan Declercq Muriel Quinet (compensates François Chaumont)</td>
<td>3</td>
<td>22.5+15</td>
<td>1q</td>
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<tr>
<td>WFARM1238</td>
<td>Introduction botanique à la pharmacognosie 2e partie</td>
<td>Joëlle Leclercq Muriel Quinet</td>
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<td>22.5+15</td>
<td>2q</td>
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<tr>
<td>WFARM1302</td>
<td>Pharmaceutical organic chemistry</td>
<td>Raphael Frédéric (coord.) Didier Lambert</td>
<td>6</td>
<td>45+30</td>
<td>1+2q</td>
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<tr>
<td>WFARM1307</td>
<td>Physical pharmacy</td>
<td>Tom Leyssens</td>
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<td>WFARM1332</td>
<td>Pharmacologie générale, 2e partie</td>
<td>Chantal Dessy Marie-Paule Mingeot</td>
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<td>Code</td>
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<td>Instructor(s)</td>
<td>Hours</td>
<td>Credits</td>
<td>Year</td>
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<td>WFARM1304</td>
<td>Pharmacognosy : a) phytochemistry - b) medicinal plants</td>
<td>Joëlle Leclercq</td>
<td>45h+30h</td>
<td>6</td>
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<tr>
<td>WFARM1300</td>
<td>Pharmacocinétique et métabolisme des xénobiotiques</td>
<td>Laure Bindels (compensates Nathalie Delzenne) Nathalie Delzenne Laure Elens</td>
<td>30h+30h</td>
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<tr>
<td>WFARM1310</td>
<td>Inorganic drugs with use diagnosis and therapeutic</td>
<td>Bernard Gallez</td>
<td>30h</td>
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<td></td>
<td>L'homme et la société, l'individu dans le monde professionnel (6 credits)</td>
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<tr>
<td>WFARM1160</td>
<td>Philosophy</td>
<td>Mylene Botbol Fabio Bruschi (compensates Mylene Botbol)</td>
<td>30h</td>
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<tr>
<td>LANGL1854</td>
<td>Medical English</td>
<td>Aurélie Deneumouster Malé Dupont (compensates Aurélie Deneumouster) Ariane Halleux Carlo Lefèvre (coord.) Lucille Meyers Mark Theodore Pertuit Nevin Serbest</td>
<td>30h</td>
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<td></td>
<td>Additionnal module in Pharmacy (30 credits)</td>
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<td></td>
<td>Deuxième bloc annuel de bachelier</td>
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<tr>
<td></td>
<td>L'étudiant est tenu de suivre les cours suivants</td>
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<tr>
<td>LANGL1855</td>
<td>Medical English</td>
<td>Timothy Byrne (coord.) Aurélie Deneumouster Carlo Lefèvre (coord.) Mark Theodore Pertuit (compensates Timothy Byrne)</td>
<td>30h</td>
<td>3</td>
<td>1 ou 2q</td>
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<tr>
<td>WFARM1219</td>
<td>Biophysics applied to the drugs</td>
<td>Bernard Gallez (coord.) Marie-Paule Mingeot</td>
<td>30h+15h</td>
<td>3</td>
<td>1q</td>
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<tr>
<td>WFARM1247</td>
<td>Traitement statistique des données</td>
<td>Céline Bugli (compensates Eugen Pircalabelu) Eugen Pircalabelu</td>
<td>15h+15h</td>
<td>3</td>
<td>2q</td>
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<tr>
<td>WFARM1239</td>
<td>Computerized workshop and research on scientific information related to drugs.</td>
<td></td>
<td>5h+10h</td>
<td>2</td>
<td>1q</td>
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<tr>
<td>WFARM1202</td>
<td>Éléments d'épidémiologie appliqués aux sciences pharmaceutiques et biomédicales</td>
<td></td>
<td>20h</td>
<td>2</td>
<td>2q</td>
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<tr>
<td>WMDS1116G</td>
<td>Psychologie générale et médicale (partim psychologie générale)</td>
<td></td>
<td>15h</td>
<td>2</td>
<td>2q</td>
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<td>Troisième bloc annuel de bachelier</td>
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<td>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.</td>
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<td>Poursuite de l'approfondissement (15 credits)</td>
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<tr>
<td>WFARM1309</td>
<td>Introduction to the pharmaceutical world, including internships</td>
<td>Valérie Lacour Marie-Paule Mingeot (coord.) Giulio Muccioli Stéphanie Quennery Rita Vanbever Pierre Wallemacq</td>
<td>7.5h</td>
<td>5</td>
<td>2q</td>
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<tr>
<td>WFARM1349</td>
<td>Integrated Seminar in Pharmaceutical Sciences</td>
<td>Nathalie Delzener Raphael Frédéric Emmanuel Hermans (coord.) Bénédicte Jordan Didier Lambert Marie-Paule Mingeot</td>
<td>45h</td>
<td>4</td>
<td>2q</td>
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**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 permettent 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.
### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
<th>Hours</th>
<th>Credits</th>
<th>Year</th>
<th>Action</th>
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<tr>
<td>WFARM1399</td>
<td>Formative minimale à l'étranger (ERASMUS)</td>
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### Approfondissement en sciences pharmaceutiques - recherche (30 credits)
Programme pour les étudiants qui ont choisi 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 Carla Lefèvre (coord.) Mark Theodore
      - 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)
      - 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** Éléments 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** Formative 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.

<table>
<thead>
<tr>
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<th>Mineure d'ouverture</th>
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<tr>
<td>O</td>
<td>Voir la liste ci-dessous.</td>
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<tr>
<td>O</td>
<td>L'étudiant poursuit la mineure d'ouverture choisie en 2e bloc annuel dans la liste ci-dessous.</td>
<td>15 Credits</td>
<td>x</td>
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</tbody>
</table>
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 Arabic language and Islamic civilization  [https://www.uclouvain.be/en-prog-2019-min-lisl100i]
- Minor in Biomedicine (openness)  [https://www.uclouvain.be/en-prog-2019-min-wsbim100i]
- Minor in Economics (open)  [https://www.uclouvain.be/en-prog-2019-min-loeco100i]
- Minor in European Studies  [https://www.uclouvain.be/en-prog-2019-min-leuro100i]
- Minor in Gender Studies  [https://www.uclouvain.be/en-prog-2019-min-lgender100i]
- Minor in Information and Communication  [https://www.uclouvain.be/en-prog-2019-min-lcomu100i]
- 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-lldrd100i]
- Minor in Management (basic knowledge)  [https://www.uclouvain.be/en-prog-2019-min-lgesa100i]
- Minor in Sciences of Religions (openness)  [https://www.uclouvain.be/en-prog-2019-min-lrel100i]
Course prerequisites

A document entitled en-prerequis-2019-farm1ba.pdf 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.

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?”

The document is available by clicking this link after being authenticated with your UCLouvain account.

Programme type

FARM1BA - 1ST ANNUAL UNIT

- ❗ Mandatory
- △ Courses not taught during 2019-2020
- ☉ Optional
- ☉ 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>ECTS</th>
<th>Period</th>
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<tbody>
<tr>
<td>WMD1102</td>
<td>Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)</td>
<td>60h+21h</td>
<td>8 Credits</td>
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<tr>
<td>WMD1104</td>
<td>Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)</td>
<td>30h+21h</td>
<td>5 Credits</td>
<td>2q</td>
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<tr>
<td>WMD1105</td>
<td>Chimie générale et minérale</td>
<td>60h+30h</td>
<td>9 Credits</td>
<td>1q</td>
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<tr>
<td>WMD1106</td>
<td>ORGANIC CHEMISTRY</td>
<td>60h+30h</td>
<td>9 Credits</td>
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<tr>
<td>WFARM1003</td>
<td>Practicals of general and inorganic chemistry</td>
<td>0h+30h</td>
<td>2 Credits</td>
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De la cellule végétale à la cellule animale, des tissus à l'être humain

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Period</th>
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<tr>
<td>WMD1120P</td>
<td>Biologie générale et approche expérimentale de la biologie (partim biologie générale)</td>
<td>65h+25h</td>
<td>9 Credits</td>
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<tr>
<td>WMD1006</td>
<td>Cytology and general histology</td>
<td>10h+40h</td>
<td>5 Credits</td>
<td>2q</td>
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<tr>
<td>WFARM1009</td>
<td>Elements of general and functional anatomy</td>
<td>30h</td>
<td>3 Credits</td>
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### Du médicament

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<th>Credits</th>
<th>Period</th>
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<tbody>
<tr>
<td>WFARM1004</td>
<td>The molecular aspect of drugs</td>
<td>Mohamed Ayadim, Raphael Frédérick (coord.)</td>
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<tr>
<td>WFARM1008</td>
<td>Design of the drug</td>
<td>Giulio Muccioi, Véronique Préat (coord.)</td>
<td>2</td>
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### L'homme et la société, l'individu dans le monde professionnel

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
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<th>Period</th>
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<tr>
<td>WFARM1160</td>
<td>Philosophy</td>
<td>Mylene Botbol, Fabio Bruschi (compensates Mylene Botbol)</td>
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<td>1q</td>
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<tr>
<td>LANGL1854</td>
<td>Medical English</td>
<td>Aurélie Deneumoustier, Mathé Dupont (compensates Aurélie Deneumoustier), Arlane Halleux, Carlo Lefevre (coord.), Lucille Meyers, Mark Theodore Pertuit, Nevin Serbest</td>
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## FARM1BA - 2ND ANNUAL UNIT

<table>
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<th>Credits</th>
<th>Period</th>
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<tbody>
<tr>
<td>WFARM1243</td>
<td>Introduction à la chimie analytique (Théorie)</td>
<td>Marie-France Herent Giulio Muccioli (coord.)</td>
<td>30h</td>
<td>2q</td>
</tr>
<tr>
<td>WFARM1244</td>
<td>Travaux pratiques d'introduction à la chimie analytique</td>
<td>Marie-France Herent Giulio Muccioli (coord.)</td>
<td>0h+105h</td>
<td>2q</td>
</tr>
<tr>
<td>WFARM1231</td>
<td>Organical chemistry Part 2</td>
<td>Mohamed Ayadin Raphaël Frédérick (coord.)</td>
<td>45h+120h</td>
<td>1q + 2q</td>
</tr>
<tr>
<td>WFARM1221</td>
<td>Biochemistry and molecular biology</td>
<td>Nathalie Delzenne (coord.) Frédéric Lemaigre Marie-Paule Mingeot</td>
<td>75h+37.5h</td>
<td>1q</td>
</tr>
</tbody>
</table>

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

- WFARM1212 Eléments de physiologie générale                                                Olivier Feron                                              | 15h+7.5h | 2q     |
- WFARM1213 Human physiology and basics of physiopathology                                 Olivier Feron (coord.) Emmanuel Hermans Philippe Lysy | 60h     | 6q     |
- WFARM1282 General microbiology                                                           Thomas Michiels                                            | 20h+15h | 1q     |

## Du médicament

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

## Additionnal module in Pharmacy

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

- Deuxième bloc annuel de bachelier
  L'étudiant est tenu de suivre les cours suivants

- LANG1855 Medical English                                                                 | Timothy Byrne (coord.) Aurèle Deneumoustier Carlo Lefeuvre (coord.) Mark Theodore Pertuit (compensates Timothy Byrne) | 30h     | 1 ou 2q|
- WFARM1219 Biophysics applied to the drugs                                                 | Bernard Gallez (coord.) Marie-Paule Mingeot               | 30h+15h | 1q     |
- WFARM1247 Traitement statistique des données                                              | Céline Bugli (compensates Eugen Pircalabelu)               | 15h+15h | 2q     |
- WFARM1239 Computerized workshop and research on scientific information related to drugs. | Laure Bindels                                              | 5h+10h  | 1q     |
- WFARM1202 Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales | Séverine Herrard                                           | 20h     | 2q     |
- WMDS1116G Psychologie générale et médicale (partim psychologie générale)                  |                                                          | 15h     | 2q     |

## Approfondissement en sciences pharmaceutiques - recherche

Programme pour les étudiants qui ont choisi l'approfondissement en sciences pharmaceutiques - Recherche
Deuxième bloc annuel de bachelier

Cours obligatoires
L'étudiant est tenu de suivre les cours suivants.

<table>
<thead>
<tr>
<th>Code</th>
<th>Titre</th>
<th>Professeurs</th>
<th>Heures</th>
<th>Crédits</th>
<th>Quatrième</th>
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<tbody>
<tr>
<td>LANGL1855</td>
<td>Medical English</td>
<td>Timothy Byrne (coord.) Aurélie Deneumoustier Carlo Lefevre (coord.) Mark Theodore Pertuit (compenses Timothy Byrne)</td>
<td>30h</td>
<td>3</td>
<td>1 ou 2q</td>
</tr>
<tr>
<td>WFARM1219</td>
<td>Biophysics applied to the drugs</td>
<td>Bernard Gallez (coord.) Marie-Paule Mingeot</td>
<td>30h+15h</td>
<td>3</td>
<td>1q</td>
</tr>
<tr>
<td>WFARM1247</td>
<td>Traitement statistique des données</td>
<td>Céline Bugli (compenses Eugen Pircalabelu) Eugen Pircalabelu</td>
<td>15h+15h</td>
<td>3</td>
<td>2q</td>
</tr>
<tr>
<td>WFARM1239</td>
<td>Computerized workshop and research on scientific information related to drugs</td>
<td>Laure Bindels</td>
<td>5h+10h</td>
<td>2</td>
<td>1q</td>
</tr>
<tr>
<td>WFARM1202</td>
<td>Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales</td>
<td>Séverine Hervard</td>
<td>20h</td>
<td>2</td>
<td>2q</td>
</tr>
<tr>
<td>WMDS1116G</td>
<td>Psychologie générale et médicale (partim psychologie générale)</td>
<td></td>
<td>15h</td>
<td>2</td>
<td>2q</td>
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</table>

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Titre</th>
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<tr>
<td></td>
<td>Mineure d'ouverture</td>
<td>Voir la liste ci-dessous.</td>
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<td>15 Credits</td>
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### Majeure

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Instructor(s)</th>
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<th>Hours</th>
<th>Period</th>
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<tbody>
<tr>
<td>WFARM1312</td>
<td>Analyse instrumentale (Théorie)</td>
<td>Marie-France Herent Giulio Muccioli (coord.)</td>
<td>30h</td>
<td>3</td>
<td>1q</td>
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<tr>
<td>WFARM1313</td>
<td>Travaux pratiques d'analyse instrumentale</td>
<td>Marie-France Herent Giulio Muccioli (coord.)</td>
<td>0h+105h</td>
<td>3</td>
<td>1q</td>
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<tr>
<td>WFARM1383</td>
<td>Génétique et biotechnologie pharmaceutiques</td>
<td>Laure Bindels Jean-François Colet Jean Baptiste Demoulin (coord.) Sophie Lucas</td>
<td>30h</td>
<td>2</td>
<td>2q</td>
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</tbody>
</table>

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

<table>
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<tr>
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<th>Instructor(s)</th>
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<th>Hours</th>
<th>Period</th>
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</thead>
<tbody>
<tr>
<td>WFARM1305</td>
<td>Elements of General Pathology</td>
<td>Diego Castanares Zapatero (compensates Stéphane Moniotte) Olivier Feron (coord.) Stéphane Moniotte (coord.)</td>
<td>30h</td>
<td>3</td>
<td>2q</td>
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<tr>
<td>WFARM1306</td>
<td>Medical microbiology</td>
<td>Benoit Kabamba-Mukadi Hector Rodriguez-Villalobos (coord.) Anne Simon Alexis Verroken</td>
<td>45h</td>
<td>4</td>
<td>1q</td>
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<tr>
<td>WSBM1334F</td>
<td>Immunologie générale (partim FARM)</td>
<td>Pierre Coulie (coord.)</td>
<td>35h</td>
<td>3</td>
<td>1q</td>
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<tr>
<td>WFARM1303</td>
<td>Clinical Chemistry</td>
<td>Jean-Philippe Defour Catherine Filée Damien Gruson Vincent Haufroid (coord.) Teresinha Leal</td>
<td>20h</td>
<td>2</td>
<td>1q</td>
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#### Du médicament

<table>
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<tr>
<th>Code</th>
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<th>Instructor(s)</th>
<th>Credits</th>
<th>Hours</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFARM1302</td>
<td>Pharmaceutical organic chemistry</td>
<td>Raphaël Frédérick (coord.) Didier Lambert</td>
<td>45h+30h</td>
<td>6</td>
<td>1 + 2q</td>
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<tr>
<td>WFARM1307</td>
<td>Physical pharmacy</td>
<td>Tom Leyssens</td>
<td>15h</td>
<td>2</td>
<td>1q</td>
</tr>
<tr>
<td>WFARM1332</td>
<td>Pharmacologie générale, 2e partie</td>
<td>Chantal Dessey Marie-Paule Mingeot</td>
<td>36h</td>
<td>4</td>
<td>1q</td>
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<tr>
<td>WFARM1304</td>
<td>Pharmacognosy : a) phytochemistry - b) medicinal plants</td>
<td>Joëlle Leclercq</td>
<td>45h+30h</td>
<td>6</td>
<td>2q</td>
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<tr>
<td>WFARM1300</td>
<td>Pharmacocinétique et métabolisme des xénobiotiques</td>
<td>Laure Bindels (compensates Nathalie Delzenne) Nathalie Delzenne Laure Elen</td>
<td>30h+30h</td>
<td>4</td>
<td>1q</td>
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<tr>
<td>WFARM1310</td>
<td>Inorganic drugs with use diagnosis and therapeutic</td>
<td>Bernard Gallez</td>
<td>30h</td>
<td>3</td>
<td>2q</td>
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</tbody>
</table>

### Additionnal module in Pharmacy

Programme pour les étudiants qui ont choisi 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
### Introduction to the Pharmaceutical World, including Internships

- **WFARM1309**
- **Credits:** 5
- **Instructors:** Valérie Lacour, Marie-Paule Mingeot (coord.), Giulio Muccioli, Stéfanie Quennery, Rita Vanbever, Pierre Wallemacq
- **Hours:** 7.5

### Integrated Seminar in Pharmaceutical Sciences

- **WFARM1349**
- **Credits:** 4
- **Instructors:** Nathalie Detzenne, Raphaël Frédérick, Emmanuel Hermans (coord.), Bénédicte Jordan, Didier Lambert, Marie-Paule Mingeot
- **Hours:** 45

### 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.

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

### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>WFARM1399</td>
<td>Formation minimale à l'étranger (ERASMUS)</td>
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</table>

### Approfondissement en sciences pharmaceutiques - recherche

Programme pour les étudiants qui ont choisi 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.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>WFARM1380</td>
<td>Introduction à la recherche pharmaceutique y compris stage</td>
<td>7</td>
<td>7</td>
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<tr>
<td>WFARM1381</td>
<td>Projet expérimental personnel</td>
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### 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.

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<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>WFARM1399</td>
<td>Formation minimale à l'étranger (ERASMUS)</td>
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### Mineure

L'étudiant qui ne choisit pas l'approfondissement en sciences pharmaceutiques ou l'approfondissement en sciences pharmaceutiques -research-, choisit une mineure d'ouverture proposée par d'autres programmes, à raison de 15 crédits en BAC2 et 15 crédits en BAC3.

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Mineure d'ouverture</td>
<td>15</td>
</tr>
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</table>
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
• Specific requirements
• Special requirements

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 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), 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.

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.
  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).

- 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).

- 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).

- 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).

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).
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. 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

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