

# Bachelor in Pharmacy

Teaching units (TU) of the first part of the cursus aim to acquire basic scientific knowledge with a pharmaceutical specificity in mind. The TU « General Biology » deals with aspects relative to cytology, histology, parasitology. The TU « Plant Biology » is concerned with the evolution of plant kingdom, and the classification of plants with medicinal properties. The TU « Fundamentals of Anatomy » gives the future pharmacists basic knowledge on the structure and topology of human body and includes elements of embryology. The TU « General Chemistry » deals with substances at a molecular level which is a requirement to better explain the progress of a chemical reaction. The TU « Organic Chemistry » explains the mechanisms of the reactions involved in the synthesis of active ingredients of drugs. To improve the rate of success of first-year student, learning seminars are organized (test guidance, language skills, literature search, computer science). The TU « Pharmacy and Society » deals with themes such as the history of pharmacy, the journey of drugs, the access of patients to care and medications, economical problems of health care and a few major ethical and social problems in relation to medical drugs.

The aim of the TU of the second and third parts of the program is to provide the students the fundamentals of biochemistry, biology and physiology. These elements are required to the comprehension of pathological processes in man (infection, metabolic disorders, tumors,...) studied in the last part of the program. Other TU introduce the students to the methods and techniques routinely used to analyze drugs. Some TU are devoted to the study and the quality control of drugs and of their components. These TU give the students the theoretical and practical basis required for their future study of the mode of action and of the analysis of therapeutic agents. At the end of the program, transdisciplinary practicals are organized in order to help the students to integrate their recent biological and chemical assets through problem-based learning.

## Bloc 1 | BA-PHAR

### Cours obligatoires

BIOL-J101	<b>Biologie animale</b>   Hassan JIJAKLI (Coordinator) ⊙ 5 credits [lecture: 50h, tutorial classes: 3h, practical work: 11h] 📅 first and second terms 🗨 French
BIOL-J102	<b>Biologie végétale</b>   Nausicaa NORET (Coordinator) ⊙ 5 credits [lecture: 36h, practical work: 12h, field trips: 12h] 📅 first term 🗨 French
CHIM-J101	<b>Chimie générale</b>   Véronique CABIAUX (Coordinator) ⊙ 10 credits [lecture: 60h, tutorial classes: 48h] 📅 first and second terms 🗨 French
CHIM-J102	<b>Chimie organique</b>   Franck MEYER (Coordinator) ⊙ 5 credits [lecture: 36h, tutorial classes: 24h] 📅 second term 🗨 French
CHIM-J103	<b>Chimie expérimentale</b>   Franck MEYER (Coordinator) and Véronique CABIAUX ⊙ 5 credits [practical work: 48h] 📅 first and second terms 🗨 French
MATH-F113	<b>Mathématiques</b>   Špela SPENKO (Coordinator) ⊙ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 first term
MEDI-J100	<b>Éléments d'anatomie et d'embryologie humaine</b>   Véronique FEIPEL (Coordinator), Hassan JIJAKLI and Olivier Snoeck ⊙ 5 credits [lecture: 32h, tutorial classes: 6h, practical work: 4h, field trips: 4h] 📅 first term 🗨 French
PHYS-F104	<b>Physique 1</b>   Barbara CLERBAUX (Coordinator), Sébastien CLESSE and Michele SFERRAZZA ⊙ 10 credits [lecture: 72h, tutorial classes: 36h, field trips: 4h] 📅 academic year 🗨 French
TRAN-J103	<b>Pharmacie et société et anglais scientifique</b>   Franck MEYER (Coordinator), Kelsey HULL and Pierre VAN ANTWERPEN ⊙ 5 credits [lecture: 12h, language practice: 24h, personal assignments: 24h] 📅 second term 🗨 French
TRAN-J111	<b>Accueil et initiation à la méthodologie universitaire</b>   Nathalie WAUTHOZ (Coordinator) ⊙ 5 credits [tutorial classes: 38h, workshop: 8h] 📅 first term 🗨 French

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## Bloc 2 | BA-PHAR

### Cours obligatoires

- BIOL-F208 **Biochimie et physiologie de la cellule** | Vincent RAUSSENS (Coordinator), Véronique KRUYSS and Maud MARTIN  
 ⌚ 5 credits [lecture: 60h] 📅 first term 🗨️ French
- BIOL-J201 **Introduction à l'étude des plantes médicinales** | Caroline STEVIGNY (Coordinator)  
 ⌚ 5 credits [lecture: 18h, practical work: 30h, field trips: 12h] 📅 second term 🗨️ French
- BMOL-J201 **Biologie moléculaire** | David VERMIJLEN (Coordinator)  
 ⌚ 5 credits [lecture: 42h] 📅 first term 🗨️ French
- CHIM-J201 **Chimie organique pharmaceutique** | François DUFRASNE (Coordinator)  
 ⌚ 5 credits [lecture: 36h, tutorial classes: 12h] 📅 second term 🗨️ French
- CHIM-J202 **Spectroscopies moléculaires et spectrométrie de masse** | Pierre VAN ANTWERPEN (Coordinator), Cédric Delporte and Michel LUHMER  
 ⌚ 5 credits [lecture: 12h, tutorial classes: 18h, workshop: 6h, personal assignments: 24h] 📅 second term 🗨️ French
- MEDI-J201 **Physiologie humaine** | Stéphanie POCHET (Coordinator)  
 ⌚ 5 credits [lecture: 60h] 📅 second term 🗨️ French
- PHAR-J210 **Analyse Pharmaceutique, méthodes volumétriques** | Cédric Delporte (Coordinator)  
 ⌚ 5 credits [lecture: 30h, tutorial classes: 10h, practical work: 40h] 📅 second term 🗨️ French
- PHAR-J230 **Analyse Pharmaceutique, méthodes Physicochimiques** | Nathalie WAUTHOZ (Coordinator)  
 ⌚ 5 credits [lecture: 30h, tutorial classes: 6h, practical work: 32h] 📅 first term 🗨️ French
- STAT-J201 **Statistiques appliquées aux sciences pharmaceutiques** | Kris De Braekeleer (Coordinator)  
 ⌚ 5 credits [lecture: 24h, tutorial classes: 28h] 📅 first term 🗨️ French
- TRAN-J201 **Scientific English and transdisciplinary projects** | Franck MEYER (Coordinator), François DUFRASNE, Véronique FONTAINE, Kelsey HULL, Hassan JIJAKLI, Stéphanie POCHET, Caroline STEVIGNY, David VERMIJLEN and Nathalie WAUTHOZ  
 ⌚ 5 credits [lecture: 12h, tutorial classes: 24h, personal assignments: 24h] 📅 first and second terms 🗨️ English/French
- TRAN-J211 **Approche pratique des sciences du vivant** | David VERMIJLEN (Coordinator), Cédric Delporte and Stéphanie POCHET  
 ⌚ 10 credits [practical work: 88h, seminars: 20h, personal assignments: 15h] 📅 academic year 🗨️ French

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## Bloc 3 | BA-PHAR

### Cours obligatoires

- BIOL-J301 [Microbiologie générale, Hygiène, Immunologie](#) | Véronique FONTAINE (Coordinator) and David VERMIJLEN  
 ⌚ 5 credits [lecture: 50h] 📅 first term 🗨️ French
- BIOL-J302 [Microbiologie médicale](#) | Véronique FONTAINE (Coordinator)  
 ⌚ 5 credits [lecture: 22h, practical work: 42h] 📅 first term 🗨️ French
- MEDI-J301 [Physiopathologie, éléments de pathologie humaine et épidémiologie](#) | Véronique MATHIEU (Coordinator) and Kris De Braekeleer  
 ⌚ 5 credits [lecture: 44h, tutorial classes: 4h] 📅 first term 🗨️ French
- PHAR-J301 [Pharmacologie générale et éléments de pharmacocinétique](#) | Stéphanie POCHET (Coordinator)  
 ⌚ 5 credits [lecture: 24h, tutorial classes: 24h, personal assignments: 12h] 📅 first term 🗨️ French
- PHAR-J302 [Analyse pharmaceutique : méthodes instrumentales et contrôle de qualité](#) | Cédric Delporte (Coordinator)  
 ⌚ 5 credits [lecture: 36h, practical work: 36h] 📅 second term 🗨️ French
- PHAR-J303 [Etude des médicaments : Pharmacognosie et médicaments d'origine naturelle](#) | Caroline STEVIGNY (Coordinator)  
 ⌚ 5 credits [lecture: 42h, practical work: 18h] 📅 first term 🗨️ French
- PHAR-J304 [Etude des médicaments : médicaments inorganiques et radiopharmacie](#) | Jehan Waeytens (Coordinator), Pierre VAN ANTWERPEN and Zéna WIMANA  
 ⌚ 5 credits [lecture: 36h, personal assignments: 12h] 📅 second term 🗨️ French
- PHAR-J305 [Etude des médicaments : médicaments organiques 1 et biologiques](#) | François DUFRASNE (Coordinator) and Cédric Delporte  
 ⌚ 5 credits [lecture: 60h] 📅 second term 🗨️ French
- TRAN-J311 [Projet transdisciplinaire en analyse des médicaments](#) | François DUFRASNE (Coordinator), Cédric Delporte, Caroline STEVIGNY and Jehan Waeytens  
 ⌚ 10 credits [tutorial classes: 28h, practical work: 74h, personal assignments: 18h] 📅 academic year 🗨️ French
- TRAN-J312 [Pratique officinale](#) | Florence SOUARD (Coordinator), François DUFRASNE, Caroline STEVIGNY and Pierre VAN ANTWERPEN  
 ⌚ 10 credits [tutorial classes: 24h, practical work: 2h, work placement: 78h, personal assignments: 12h] 📅 first and second terms 🗨️ French