



Bachelor in Biomedical sciences

The 2024-2025 programme is subject to change. It is provided for information purposes only.

Programme mnemonic

BA-BIME

Studies level

Bachelor

Learning language

french

Schedule

office hours

Studies category / subcategory

Health / Biomedical and pharmaceutical sciences

Campus

Erasme

Succeed in your studies

Choose

The information and guidance counsellors at the InfOR-études [<https://www.ulb.be/en/studies-info-desk-1>] service will help you choose your studies throughout the year.

Succeed

Take part in preparatory courses [<https://www.ulb.be/en/studies-info-desk-1>] or get help to succeed [<https://www.ulb.be/en/studies-info-desk-1>], before or during your studies.

Get help

Apply for financial aid, look for accommodation or a student job, get support [<https://www.ulb.be/fr/aides-services-et-accompagnement/aid-services-and-support-1>] for your specific needs.

Programme objectives

Fulfil your ambitions by gaining a command of the concepts and techniques of human biology with a particular focus on pure or applied medical research aiming at the development of new diagnostic or therapeutic tools.

Programme's added value

During your 1st unit you will receive guidance for biology, chemistry, mathematics and physics; you will be given help in adjusting your working methods, overcoming your weaknesses as quickly as possible, solving exercises relating to theoretical notions.

You will have at your disposal:

- > the central medical library, located on the Erasme Campus; a large number of reading and study rooms.

a number of well-equipped laboratories located on the Campus Erasme and on the ULB Biopark at Charleroi.

International/Openness

You will have the opportunity to take part in the Erasmus exchange program organised by the School of Medicine.

Job opportunities

The BA prepares to the MA studies. If you go on to do a Master in Biomedical Sciences, you will join research teams working in various research fields, such as medical biology or genetics, immunology, neurosciences, cancerology, microbiology, toxicology, etc...and participate in the biomedical research aiming at the development of new diagnostic or therapeutic technologies.

Contacts

<https://medecine.ulb.be/version-francaise/contact>



Jury Presidents

David GALL (bloc 1), Anne OP DE BEECK, Stéphane LOURYAN (bloc 1) and Basile STAMATOPOULOS (bloc 2 & 3)

Jury Secretaries

Laurence LADRIERE (bloc 1) and Simon LACROIX



Bachelor in Biomedical sciences

Bloc 1 | BA-BIME

Cours obligatoires

- BIOL-G1102 **Biologie générale (Module I)** | Laurence LADRIERE (Coordinator)
 ⌚ 5 credits [lecture: 60h, tutorial classes: 5h] 📅 first term 🗨️ French
- BIOL-G1103 **Biologie des organismes et du développement (Module II)** | Laurence LADRIERE (Coordinator)
 ⌚ 10 credits [lecture: 45h, practical work: 45h] 📅 first and second terms 🗨️ French
- CHIM-G1103 **Base chimiques pour les sciences biomédicales et du vivant - Module I** | Pascal LAURENT (Coordinator) and Mohamed AZARKAN
 ⌚ 5 credits [lecture: 54h, tutorial classes: 24h] 📅 first term 🗨️ French
- CHIM-G1104 **Base chimiques pour les sciences biomédicales et du vivant - Module II** | Pascal LAURENT (Coordinator) and Mohamed AZARKAN
 ⌚ 10 credits [lecture: 56h, tutorial classes: 24h, practical work: 26h] 📅 second term 🗨️ French
- MATH-G1101 **Mathématiques appliquées aux Sciences de la Vie** | Caroline VERHOEVEN (Coordinator)
 ⌚ 5 credits [lecture: 30h, tutorial classes: 35h] 📅 first term 🗨️ French
- MEDI-G1107 **Réflexion scientifique et projet PRO** | Jean-Noël MISSA (Coordinator), Anne BOTTEAUX, Anne OP DE BEECK and Isabelle PIRSON
 ⌚ 5 credits [lecture: 12h, project: 10h, personal assignments: 10h] 📅 second term 🗨️ French
- MORF-G1109 **Anatomie et Histologie générale** | Ievgeniia PASTUSHENKO (Coordinator)
 ⌚ 5 credits [lecture: 35h, practical work: 25h] 📅 second term 🗨️ French
- PHYS-G1103 **Physique appliquée aux sciences de la Vie- Module I** | Antonin ROVAI (Coordinator) and Vincent WENS
 ⌚ 10 credits [lecture: 60h, tutorial classes: 45h] 📅 first term 🗨️ French
- PHYS-G1104 **Physique appliquée aux sciences de la Vie- Module II** | Antonin ROVAI (Coordinator) and Vincent WENS
 ⌚ 5 credits [lecture: 30h, tutorial classes: 20h] 📅 second term 🗨️ French

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Bloc 2 | BA-BIME























Cours obligatoires

- BIOL-G2203 **Biologie moléculaire de la cellule, Biologie cellulaire 1** | Xavier BISTEAU (Coordinator)
 ⌚ 5 credits [lecture: 50h] 📅 first term 🗨️ French
- BMOL-G2205 **Immunologie et microbiologie 1** | Anne BOTTEAUX (Coordinator), Olivier DENIS and Fabienne WILLEMS
 ⌚ 5 credits [lecture: 60h] 📅 second term 🗨️ French
- BMOL-G2208 **Biochimie 1: biochimie générale** | Pascale VERTONGEN (Coordinator) and Jean-Yves SPRINGAEL
 ⌚ 10 credits [lecture: 37h, practical work: 105h] 📅 first term 🗨️ French
- BMOL-G2209 **Biochimie 2 : biochimie métabolique et radioprotection** | Marie-Isabelle GARCIA (Coordinator) and Luigi MORETTI
 ⌚ 5 credits [lecture: 52h] 📅 second term 🗨️ French
- CHIM-G2201 **Chimie organique** | Simon LACROIX (Coordinator)
 ⌚ 5 credits [lecture: 25h, practical work: 27h] 📅 second term 🗨️ French
- MEDI-G2203 **Epidémiologie et biostatistiques** | Caroline VERHOEVEN (Coordinator) and Boudewijn CATRY
 ⌚ 5 credits [lecture: 32h, practical work: 26h] 📅 second term 🗨️ French
- MEDI-G2211 **Physiologie générale** | Laurence DEWACHTER (Coordinator)
 ⌚ 10 credits [lecture: 40h, practical work: 16h] 📅 first term 🗨️ French
- MORF-G2211 **Anatomie pathologique, Hématologie et Histologie spéciale** | Basile STAMATOPOULOS (Coordinator), Ievgeniia PASTUSHENKO and Myriam REMMELINK
 ⌚ 10 credits [lecture: 40h, practical work: 27h] 📅 second term 🗨️ French
- TRAN-G2204 **Approche scientifique 1 : Informatique, Recherche bibliographique, Anglais et Projet PRO** | David GALL (Coordinator), Anne BOTTEAUX, Anne OP DE BEECK and Isabelle PIRSON
 ⌚ 5 credits [lecture: 15h, tutorial classes: 10h, practical work: 33h, project: 10h] 📅 first term 🗨️ French

Bachelor in Biomedical sciences

Bloc 3 | BA-BIME

Cours obligatoires

- BIOL-G3302 **Biologie du développement et de l'évolution** | Grégory SEMPO (Coordinator), Sumeet Pal SINGH and Nathalie VANMUYLDER
 5 credits [lecture: 42h]  first term  French
- BMOL-G3303 **Immunologie et microbiologie 2** | Anne OP DE BEECK (Coordinator), Anne BOTTEAUX, Mostafa CHAMEKH, Arnaud MARCHANT and Carine TRUYENS
 10 credits [lecture: 56h, practical work: 60h]  second term  French
- BMOL-G3307 **Génétique humaine, Biologie cellulaire II** | Xavier BISTEAU (Coordinator) and Isabelle MIGEOTTE
 5 credits [lecture: 44h, practical work: 10h]  second term  French
- BMOL-G3308 **Maladies métaboliques, nutrition et diabète** | Alessandra KUPPER CARDOZO (Coordinator), Jean-Charles PREISER and Joanne RASSCHAERT
 5 credits [lecture: 44h]  second term  French
- BMOL-G3310 **Biotechnologie et Initiation à la recherche** | Xavier DE DEKEN (Coordinator), Rachel DEPLUS and Anne OP DE BEECK
 5 credits [lecture: 24h, practical work: 104h]  first and second terms  French
- BMOL-G3402 **Biochimie analytique** | David COMMUNI (Coordinator) and Vincent RAUSSENS
 5 credits [lecture: 30h, practical work: 6h]  first term  French
- MORF-G3203 **Hématologie** | Basile STAMATOPOULOS (Coordinator), Anne DEMULDER and Nathalie MEULEMAN
 5 credits [lecture: 45h, practical work: 60h]  first term  French
- MORF-G3308 **Neurosciences** | Serge SCHIFFMANN (Coordinator)
 5 credits [lecture: 30h]  first term  French
- MORF-G3309 **Physiopathologie** | Céline DEWACHTER (Coordinator) and Bernard CORVILAIN
 5 credits [lecture: 42h]  first term  French
- PHAR-G3302 **Pharmacologie** | Laurence DEWACHTER (Coordinator) and Ingrid LANGER
 5 credits [lecture: 46h]  second term  French
- TRAN-G3306 **Approche scientifique 2 : Communication scientifique, Anglais et PROJET PRO** | Alessandra KUPPER CARDOZO (Coordinator), Anne BOTTEAUX, Anne OP DE BEECK and Isabelle PIRSON
 5 credits [practical work: 68h, personal assignments: 20h]  first and second terms  French