

**At Bruxelles Woluwe - 180 credits - 3 years - Day schedule - In French**Dissertation/Graduation Project : **NO** - Internship : **YES**Activities in English: **NO** - Activities in other languages : **NO**Activities on other sites : **NO**Main study domain : **Sciences biomédicales et pharmaceutiques**Organized by: **Faculty of Pharmacy and Biomedical Sciences (FASB)**Programme acronym: **SBIM1BA** - Francophone Certification Framework: 6**Table of contents**

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## SBIM1BA - Introduction

### Introduction

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## SBIM1BA - Teaching profile

### Learning outcomes

Bachelor in Biomedicine students must endeavour to prepare themselves for the training offered in the various Master's programmes taught by the School of Biomedical Sciences. To this end, students will apply themselves to acquiring the knowledge and skills that will enable them to become specialists in a field of biomedicine and play an integral part in a scientific project.

As part of the Bachelor in Biomedicine programme, students will study in detail the basic scientific foundations required to practise biomedicine and will discover a variety of specific areas of biomedical research. These activities will enable them to decide on their training projects for the Master's programme. In addition, practical lab work will enable Bachelor students to acquire the professional skills that they will develop during the Master's programme with increasing robustness and independence.

The objective of the School of Biomedical Sciences is to produce health sector professionals capable of conducting and interpreting scientific projects intended to improve the understanding, diagnosis and treatment of human diseases. In particular, the training is aimed at developing the skills required for the acquisition and analysis of observations and experiments in biomedicine, while at the same time cultivating scientific robustness and integrity.

On successful completion of this programme, each student is able to :

1 Use the tools required to acquire integrated knowledge in biomedicine

1.a Incorporate the general knowledge and methodologies in experimental biomedicine: biochemistry and molecular biology; cellular biology, general and special histology, general anatomy; general and special physiology; principal pathologies and their multifactorial pathogenesis, genetic diseases as experiments by nature; the major principles of pharmacology.

1.b Describe the experimental approaches and observation methods that resulted in this knowledge base.

1.c Use modern knowledge sources to effectively research pertinent, new and specific information.

2 Master the culture of numbers and representations

2.a Understand units and deal with orders of magnitude; use the standardisations and tests limiting the dispersion of experimental measurements; use reasoning and statistical tools; use forms of graphical representation.

2.b Understand the functions and rules of modern mathematical modelling; understand the mathematical translation of the major laws of physics, chemistry and biology (speed and constants, flux, interactions and affinity); identify the crucial limiting parameters.

2.c Display command of the IT tools that assist analysis and calculation.

3 Conduct biomedical experiments

3.a Formulate a biomedical problem, translate it into a scientific question and determine an experimental strategy to deal with it.

3.b Execute the successive steps of an experimental protocol:

i.e.:

- understand and accurately describe them, so that they may be reproduced by another scientist.

3.c Conduct experiments:

i.e.:

- manipulate biological and chemical equipment, demonstrating manual dexterity and observing laboratory best practices, including safety and waste management standards;

- use measuring and imaging instruments appropriately, as well as the IT tools associated with them;

- ensure effective reproducibility through accurate and thorough know-how.

4 Analyse, write and evaluate data from biomedical experiments

4.a Robustly analyse the observations in order to draw interpretations from them; identify analogical and deductive reasonings; identify correlation and causality.

4.b On the basis of the above reasonings, present a detailed argument of the results by comparing them with the bibliographical data (critical analysis).

4.c Recognise the failures and identify their causes.

5 Present scientific observations clearly, verbally and in writing

5.a Understand and employ a precise and specific biomedical vocabulary adapted to the applications of biomedicine.

5.b Draft a precise protocol, note the observations in detail in a laboratory notebook, write a clear, informative and exhaustive report on a series of observations or experiments.

5.c Use the rules enabling effective verbal communication of projects, published data or the results of experiments.

5.d Demonstrate the internal consistency of the results and incorporate them into the published knowledge bases.

### Programme structure

General presentation of the programme

The bachelor's of Biomedical Sciences totals 180 credits.

The " major " of the programme consists of a basic course of 60 credits (1st year) and a specialised training course (2nd and 3rd year) of at least 90 credits.

The major is completed by a course equivalent to 30 credits, which may be an option selected from "the options menu" (more advanced studies in Biomedical Sciences) or a "minor" (an opening course in other disciplines). The course of 30 credits may be followed together with the specialised course.

#### Principal Subjects

The bachelor's studies enable the student to apprehend the world of the living, from a single atom to the whole of society .

*A toms, molecules and the systems which govern them :*

General and Organic Chemistry - Biochemistry - Applied Physics - Pharmacology and Pharmacokinetics - Mathematics.

*From a single cell to a human being*

Morphological and Functional Approach : General Cellular and Molecular Biology, - Cytology and Histology- Anatomy - Embryology - Immunology - Physiology - Microbiology - General Pathology.

*Man and society*

Contextual Approach : Philosophy - Psychology.

*Research experience*

Statistics - Strategies and applied models - Genetic Engineering - Instrumental Analysis.

*Other studies*

English

## SBIM1BA Programme

### Detailed programme by subject

- Mandatory
- ⊗ Optional
- △ Not offered in 2022-2023
- ⊖ Not offered in 2022-2023 but offered the following year
- ⊕ Offered in 2022-2023 but not the following year
- △ ⊕ Not offered in 2022-2023 or the following year
- Activity with requisites
- ⊕ Open to incoming exchange students
- ⊗ Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

1 2 3

#### ○ Majeure (150 credits)

##### ○ 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 Geoffroy Piroux (compensates Fabio Maltoni)	PS [q1] [60h+21h] [8 Credits] ⊕	X		
○ WMD1104	Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)	Michel Herquet (compensates Fabio Maltoni)	PS [q2] [30h+21h] [5 Credits] ⊕	X		
○ WSBIM1001	MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES	Pierre Bieliavsky Annie Robert	PS [q2] [45h+20h] [5 Credits] ⊕	X		
○ WMD1105	Chimie générale et minérale	Mark Rider (coord.) Alexandru Vlad	PS [q1] [60h+30h] [9 Credits] ⊕	X		

				Year		
				1	2	3
○ WMD1106	ORGANIC CHEMISTRY	Olivier Riant Michael Singleton	PR [q2] [60h+30h] [9 Credits]	x		
○ WPHAR1300	Pharmacology Part 1	Emmanuel Hermans Joseph Lorent	PR [q1] [30h+7.5h] [3 Credits] > English-friendly			x
○ WFARM1221S	Biochemistry and molecular biology	Nathalie Delzenne (coord.)	PR [q1] [50h+10h] [6 Credits]		x	

### o De la cellule à l'être humain

○ WMD1120	General biology and an experimental approach to biology	Charles De Smet Jean Baptiste Demoulin (coord.) Pascal Kienlen-Campard	PR [q1] [75h+25h] [10 Credits]	x		
○ WMD1006	Cytology and general histology	Christophe Pierreux	PR [q2] [10h+40h] [5 Credits]	x		
○ WFARM1009	Elements of general and functional anatomy	Christine Galant (coord.) Catherine Hubert Alain Poncelet	PR [q2] [30h] [3 Credits]	x		
○ WSBIM1226	Molecular biology (including epigenetics) and tutorials	Charles De Smet Frédéric Lemaigre Thomas Michiels (coord.)	PR [q1] [30h+10h] [3 Credits]		x	
○ WSBIM1227	Molecular biology and integrated biochemistry	Luc Bertrand	PR [q2] [20h+30h] [3 Credits]		x	
○ WMDS1230	Biologie cellulaire médicale et expérimentale	Stefan Constantinescu (coord.) Christophe Pierreux Donatienne Tyteca	PR [q1] [30h+20h] [4 Credits]		x	
○ WANAT1110	Human embryology	Charles De Smet (coord.) Christophe Pierreux	PR [q2] [30h] [3 Credits]			x
○ WSBIM1201T	General physiology - General physiology (theory part, 40h)	Olivier Feron Patrick Gilon	PR [q1] [40h] [4 Credits]		x	
○ WSBIM1201P	General physiology - General physiology (practical part, 25h)	Olivier Feron Patrick Gilon	PR [q1] [0h+25h] [2 Credits]		x	
○ WSBIM1203	Special histology and hematology	Christophe Pierreux (coord.) Mieke Van Bockstal	PR [q1] [15h+15h] [3 Credits]		x	
○ WSBIM1204	Histology and pathological anatomy workshop	Yves Guiot Christophe Pierreux (coord.) Mieke Van Bockstal	PR [q2] [30h] [2 Credits]			x
○ WFARM1282	General microbiology	Thomas Michiels	PR [q1] [20h+15h] [3 Credits]		x	
○ WSBIM1200	Biomedical instrumental analysis and radiation protection	Giulio Muccioli	PR [q1] [30h+30h] [4 Credits] > English-friendly		x	
○ WFARM1213S	Human physiology and basics of physiopathology - (Partim SBIM)	Olivier Feron (coord.) Philippe Lysy	PR [q2] [50h] [5 Credits] > English-friendly		x	
○ WMDS1231	Biochimie humaine pathologique	Guido Bommer Jean-François Collet Frédéric Lemaigre (coord.)	PR [q2] [30h] [3 Credits] > English-friendly			x
○ WMDS1229	Génétique humaine	Miikka Vikkula	PR [q2] [20h] [2 Credits] > English-friendly			x
○ WSBIM1334	general immunology	Isabelle Leclercq Julian Leprince Sophie Lucas (coord.) Benoit Van den Eynde Nathalie Vigneron (compensates Jean- Christophe Renaud)	PR [q1] [65h] [6 Credits] > English-friendly			x
○ WSBIM1382	Genetics and applied biotechnology	Luc Bertrand (coord.) Laure Dumoutier Géraldine Laloux Nisha Limaye	PR [q1] [30h] [3 Credits] > English-friendly			x
○ WSBIM1302	Molecular Virology	Thomas Michiels	PR [q1] [25h] [3 Credits]			x
○ WFARM1305	Elements of General Pathology	Mélanie Dechamps Olivier Feron (coord.)	PR [q2] [30h] [3 Credits] > English-friendly			x

				Year		
				1	2	3
○ WSBIM1293	Training course in cell biology 🟡	Nicolas Dauguet Laure Dumoutier (coord.)	FR [q2] [30h] [2 Credits] 🌐		x	
○ WSBIM1303P	Workshop on experimental strategy in cellular and molecular biology 🟡	Luc Bertrand Pascal Kienlen-Campard (coord.)	FR [q2] [30h] [3 Credits] 🌐 > English-friendly			x
○ WSBIM1303T	Workshop on experimental strategy in cellular and molecular biology (theory) 🟡	Luc Bertrand Pascal Kienlen-Campard (coord.)	FR [q1] [30h] [3 Credits] 🌐 > English-friendly			x

### o L'homme et la société : approche contextuelle

○ WFARM1247	Statistical data processing 🟡	Eugen Pircalabelu	FR [q2] [15h+15h] [3 Credits] 🌐		x	
○ WFARM1202	Éléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales 🟡	Marie Lambert (compensates Séverine Henrard)	FR [q2] [20h] [2 Credits] 🌐 > English-friendly			x
○ WFARM2177	Biostatistics 🟡	Laure Elens	FR [q2] [20h+10h] [3 Credits] 🌐			x
○ WFARM1160	Philosophy	Charlotte Luyckx (compensates Mylene Botbol)	FR [q1] [30h] [3 Credits] 🌐	x		
○ LANGL1854	Medical English	Julie Callens (compensates Ariane Halleux) Aurélie Deneumoustier Carlo Lefevre (coord.) Hila Peer Mark Theodore Pertuit Marine Volpe (compensates Ariane Halleux)	FR [q2] [30h] [3 Credits] 🌐	x		
○ LANGL1855	Medical English 🟡	Timothy Byrne (coord.) Aurélie Deneumoustier Carlo Lefevre (coord.)	EN [q1 or q2] [30h] [3 Credits] 🌐		x	
○ LANGL2454	English for biomedical students 🟡	Nicholas Gibbs Nevin Serbest (coord.)	EN [q2] [30h] [3 Credits] 🌐			x

### o Stage en laboratoire (3 credits)

○ WSBIM1393	Laboratory training 🟡	Pascal Kienlen-Campard	FR [q2] [30h] [3 Credits] 🌐			x
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### ⌘ Additional module in Biomedical Sciences (30 credits)

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











#### o Deuxième bloc annuel de bachelier

L'étudiant est tenu de suivre les cours suivants :

○ WSBIM1205	Introduction to toxicology 🟡	Lidvine Boland Nathalie Delzenne Philippe Hantson Vincent Haufroid Perrine Hoet (coord.) François Huaux	FR [q2] [30h] [3 Credits] 🌐		x	
○ WSBIM1211	Methodology of cell and molecular biology 🟡	Guido Bommer Jean-François Collet (coord.) Stefan Constantinescu Donatienne Tyteca	FR [q2] [22.5h] [3 Credits] 🌐			x
○ WSBIM1206	From nutrient to food 🟡	Sonia Brichard Jean-Paul Thissen (coord.)	FR [q1] [30h] [3 Credits] 🌐 > English-friendly		x	
○ WSBIM1220	Neurobiology 🟡	Emmanuel Hermans (coord.) Aleksandar Jankovski Pascal Kienlen-Campard Marcus Missal	FR [q2] [30h] [3 Credits] 🌐 > English-friendly			x
○ WSBIM1207	Introduction to bioinformatics 🟡	Laurent Gatto	FR [q2] [15h+20h] [3 Credits] 🌐			x

#### o Troisième bloc annuel de bachelier

L'étudiant est tenu de suivre les cours suivants :

				Year		
				1	2	3
○ WFARM2139T	Pharmacokinetic, genomics and toxicology (toxicology part) 	Laure Bindels (coord.)	FR [q1] [22h] [3 Credits]  > English-friendly			X
○ WSBIM1320	Introduction to experimental approaches in cellular and molecular biology 	Luc Bertrand Anne des Rieux Sandrine Horman Donatienne Tyteca (coord.)	FR [q2] [30h] [3 Credits] 			X
○ WSBIM1305	Introduction to human nutrition 	Véronique Beauloye Sonia Brichard Nathalie Delzenne (coord.)	FR [q1] [30h] [3 Credits] 			X
○ WSBIM1323	Systemic neuroscience 	Philippe Gailly Pascal Kienlen-Campard Marcus Missal (coord.)	FR [q1] [30h] [3 Credits] 			X
○ WSBIM1322	Bioinformatics 	Laurent Gatto	FR [q1] [30h+10h] [3 Credits] 			X

### ⌘ Minor or additional module (30 credits)

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

## List of available minors

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During the bachelor's of Biomedical Sciences, personally selected options will give the student the opportunity to become more familiar with the different branches available at master's level.

Instead of the options, the bachelor's may also include a "minor" which will enable the student to open up new horizons.

- > [Minor in Law \(access\)](#) [ en-prog-2022-minadro ]
- > [Minor in Antiquity: Egypt, Eastern World, Greece, Rome](#) [ en-prog-2022-minanti ]
- > [Minor in History of Art and Archeology](#) [ en-prog-2022-minarke ]
- > [Minor in Chinese studies](#) [ en-prog-2022-minchin ]
- > [Minor in Information and Communication](#) [ en-prog-2022-mincomu ]
- > [Minor in Criminology](#) [ en-prog-2022-mincrim ]
- > [Minor in Culture and Creation](#) [ en-prog-2022-mincucreea ]
- > [Minor in Scientific Culture](#) [ en-prog-2022-mincults ]
- > [Minor in Development and Environment](#) [ en-prog-2022-mindenv ]
- > [Minor : Issues of Transition and Sustainable Development](#) [ en-prog-2022-mindd ]
- > [Minor in Economics](#) [ en-prog-2022-minecon ]
- > [Minor in European Studies](#) [ en-prog-2022-mineuro ]
- > [Minor in French Studies](#) [ en-prog-2022-minfran ]
- > [Minor in Gender Studies](#) [ en-prog-2022-mingenre ]
- > [Minor in Geography](#) [ en-prog-2022-mingeog ]
- > [Minor in Mangement \(basic knowledge\)](#) [ en-prog-2022-minogest ]
- > [Minor in History](#) [ en-prog-2022-minhist ]
- > [Minor in Human and Social Sciences](#) [ en-prog-2022-minhuso ]
- > [Minor in Arabic language and Islamic civilization](#) [ en-prog-2022-minislam ]
- > [Minor in Philosophy](#) [ en-prog-2022-minfilo ]
- > [Minor in Linguistics](#) [ en-prog-2022-minling ]
- > [Minor in Literary Studies](#) [ en-prog-2022-minlitt ]
- > [Minor in Medieval Studies](#) [ en-prog-2022-minmedi ]
- > [Minor in Musicology](#) [ en-prog-2022-minmusi ]
- > [Minor in Law \(openness\)](#) [ en-prog-2022-minodroi ]
- > [Minor in Economics \(open\)](#) [ en-prog-2022-minoeco ]
- > [Minor in Oriental Studies](#) [ en-prog-2022-minori ]
- > [Minor in Sciences of Religions \(openness\)](#) [ en-prog-2022-minreli ]
- > [Minor in Sociology and Anthropology](#) [ en-prog-2022-minsoca ]
- > [Minor in Population and Development Studies](#) [ en-prog-2022-minsped ]
- > [Minor in Political Sciences](#) [ en-prog-2022-minspol ]
- > [Minor in Statistics, Actuarial Sciences and Data Sciences](#) [ en-prog-2022-minstat ]
- > [Minor in numerical technologies and society](#) [ en-prog-2022-minstic ]
- > [Minor in Christian Theology](#) [ en-prog-2022-mintheo ]
- > [Minor in Medication Sciences](#) [ en-prog-2022-minfarm ]
- > [Additional module in Biomedical Sciences](#) [ en-prog-2022-appsbim ]



## 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.

### Prerequisites and student's annual programme

As the prerequisite is for CU registration purposes only, there are no prerequisites within a programme year. Prerequisites are defined between CUs of different years and therefore influence the order in which the student will be able to register for the programme's CUs.

In addition, when the jury validates a student's individual programme at the beginning of the year, it ensures its coherence, meaning that it may:

- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.
- transform a prerequisite into a corequisite if the student is in the final year of a degree course.

For more information, please consult the [Academic Regulations and Procedures](https://uclouvain.be/fr/decouvrir/rgee.html) (<https://uclouvain.be/fr/decouvrir/rgee.html>).

### # Prerequisites list

- LANGL1855** "Anglais médical" has prerequisite(s) LANGL1854
- LANGL1854 - Medical English
- LANGL2454** "Anglais pour étudiants en sciences biomédicales" has prerequisite(s) LANGL1855
- LANGL1855 - Medical English
- WANAT1110** "Embryologie" has prerequisite(s) WSBIM1226 ET WSBIM1227 ET WMDS1230
- WSBIM1226 - Molecular biology (including epigenetics) and tutorials
  - WSBIM1227 - Molecular biology and integrated biochemistry
  - WMDS1230 - Biologie cellulaire médicale et expérimentale
- WFARM1202** "Éléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales" has prerequisite(s) WFARM1247 ET WSBIM1207 ET LANGL1855
- WFARM1247 - Statistical data processing
  - WSBIM1207 - Introduction to bioinformatics
  - LANGL1855 - Medical English
- WFARM1213S** "Physiologie des systèmes et éléments de physiopathologie - (partim SBIM)" has prerequisite(s) WMD1120 ET WFARM1009 ET WMD1006
- WMD1120 - General biology and an experimental approach to biology
  - WFARM1009 - Elements of general and functional anatomy
  - WMD1006 - Cytology and general histology
- WFARM1221S** "Biochimie et biologie moléculaire (partim biochimie)" has prerequisite(s) WMD1120 ET WMD1006 ET WMD1106
- WMD1120 - General biology and an experimental approach to biology
  - WMD1006 - Cytology and general histology
  - WMD1106 - ORGANIC CHEMISTRY
- WFARM1247** "Traitement statistique des données" has prerequisite(s) WMD1102 ET WSBIM1001 ET LANGL1854
- WMD1102 - Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)
  - WSBIM1001 - MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES
  - LANGL1854 - Medical English
- WFARM1282** "Microbiologie générale" has prerequisite(s) WMD1120 ET WMD1006 ET WSBIM1001
- WMD1120 - General biology and an experimental approach to biology
  - WMD1006 - Cytology and general histology
  - WSBIM1001 - MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES
- WFARM1305** "Éléments de pathologie humaine" has prerequisite(s) WFARM1213S ET WSBIM1203
- WFARM1213S - Human physiology and basics of physiopathology - (Partim SBIM)
  - WSBIM1203 - Special histology and hematology
- WFARM2139T** "Pharmacocinétique, pharmacogénomique et toxicologie (partim toxicologie, 22h)" has prerequisite(s) WFARM1221S ET WSBIM1201T ET WSBIM1201P ET WSBIM1205
- WFARM1221S - Biochemistry and molecular biology
  - WSBIM1201T - General physiology - General physiology (theory part, 40h)
  - WSBIM1201P - General physiology - General physiology (practical part, 25h)
  - WSBIM1205 - Introduction to toxicology
- WFARM2177** "Biostatistique" has prerequisite(s) WFARM1247
- WFARM1247 - Statistical data processing
- WMDS1229** "Génétique humaine" has prerequisite(s) WFARM1221S ET WSBIM1226 ET WMDS1230 ET WFARM1247
- WFARM1221S - Biochemistry and molecular biology
  - WSBIM1226 - Molecular biology (including epigenetics) and tutorials
  - WMDS1230 - Biologie cellulaire médicale et expérimentale
  - WFARM1247 - Statistical data processing

- WMDS1230** "Biologie cellulaire médicale et expérimentale" has prerequisite(s) WMD1120 ET WMD1006
- WMD1120 - General biology and an experimental approach to biology
  - WMD1006 - Cytology and general histology
- WMDS1231** "Biochimie humaine pathologique" has prerequisite(s) WFARM1213S ET WFARM1221S ET WSBIM1227 ET WFARM1282 ET WFARM1247 ET WSBIM1201T ET WSBIM1201P
- WFARM1213S - Human physiology and basics of physiopathology - (Partim SBIM)
  - WFARM1221S - Biochemistry and molecular biology
  - WSBIM1227 - Molecular biology and integrated biochemistry
  - WFARM1282 - General microbiology
  - WFARM1247 - Statistical data processing
  - WSBIM1201T - General physiology - General physiology (theory part, 40h)
  - WSBIM1201P - General physiology - General physiology (practical part, 25h)
- WPHAR1300** "Pharmacologie 1re partie" has prerequisite(s) WFARM1213S ET WSBIM1201T ET WSBIM1201P
- WFARM1213S - Human physiology and basics of physiopathology - (Partim SBIM)
  - WSBIM1201T - General physiology - General physiology (theory part, 40h)
  - WSBIM1201P - General physiology - General physiology (practical part, 25h)
- WSBIM1200** "Analyse instrumentale biomédicale et radioprotection" has prerequisite(s) WSBIM1001 ET WMD1105 ET WMD1106
- WSBIM1001 - MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES
  - WMD1105 - Chimie générale et minérale
  - WMD1106 - ORGANIC CHEMISTRY
- WSBIM1201P** "Physiologie générale (partie travaux pratiques, 25h)" has prerequisite(s) WMD1102 ET WMD1104
- WMD1102 - Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)
  - WMD1104 - Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)
- WSBIM1201T** "Physiologie générale (partim théorie, 40h)" has prerequisite(s) WMD1120 ET WMD1006 ET WMD1102 ET WMD1104
- WMD1120 - General biology and an experimental approach to biology
  - WMD1006 - Cytology and general histology
  - WMD1102 - Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)
  - WMD1104 - Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)
- WSBIM1203** "Histologie spéciale et hématologie" has prerequisite(s) WFARM1009 ET WMD1006
- WFARM1009 - Elements of general and functional anatomy
  - WMD1006 - Cytology and general histology
- WSBIM1204** "Atelier d'histologie et d'anatomie pathologique" has prerequisite(s) WFARM1213S ET WSBIM1203
- WFARM1213S - Human physiology and basics of physiopathology - (Partim SBIM)
  - WSBIM1203 - Special histology and hematology
- WSBIM1205** "Introduction à la toxicologie" has prerequisite(s) WMD1105 ET WMD1106
- WMD1105 - Chimie générale et minérale
  - WMD1106 - ORGANIC CHEMISTRY
- WSBIM1206** "Du nutriment à l'aliment" has prerequisite(s) WFARM1009 ET WMD1105 ET WMD1106
- WFARM1009 - Elements of general and functional anatomy
  - WMD1105 - Chimie générale et minérale
  - WMD1106 - ORGANIC CHEMISTRY
- WSBIM1207** "Introduction à la bio-informatique" has prerequisite(s) WMD1102 ET WSBIM1001 ET LANGL1854
- WMD1102 - Physique expérimentale et introduction mathématique aux sciences expérimentales (1e partie)
  - WSBIM1001 - MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES
  - LANGL1854 - Medical English
- WSBIM1211** "Méthodologie de la biologie cellulaire et moléculaire" has prerequisite(s) WMD1120 ET WMD1006 ET WSBIM1001 ET WMD1105
- WMD1120 - General biology and an experimental approach to biology
  - WMD1006 - Cytology and general histology
  - WSBIM1001 - MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES
  - WMD1105 - Chimie générale et minérale
- WSBIM1220** "Neurobiologie" has prerequisite(s) WFARM1009
- WFARM1009 - Elements of general and functional anatomy
- WSBIM1226** "Biologie moléculaire (dont l'épigénétique) et travaux dirigés" has prerequisite(s) WMD1120 ET WMD1106
- WMD1120 - General biology and an experimental approach to biology
  - WMD1106 - ORGANIC CHEMISTRY
- WSBIM1227** "Biologie moléculaire et biochimie intégrée" has prerequisite(s) WSBIM1001 ET WMD1106
- WSBIM1001 - MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES
  - WMD1106 - ORGANIC CHEMISTRY
- WSBIM1293** "Stage de biologie cellulaire" has prerequisite(s) WMD1120 ET WMD1006 ET WMD1104 ET WSBIM1001
- WMD1120 - General biology and an experimental approach to biology
  - WMD1006 - Cytology and general histology
  - WMD1104 - Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)
  - WSBIM1001 - MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES
- WSBIM1302** "Virologie moléculaire" has prerequisite(s) WSBIM1227 ET WFARM1282

- WSBIM1227 - Molecular biology and integrated biochemistry
  - WFARM1282 - General microbiology
- WSBIM1303P** "Ateliers de stratégie expérimentale en biologie cellulaire et moléculaire (pratique)" has prerequisite(s) WFARM1221S ET WSBIM1226 ET WSBIM1227 ET WMDS1230 ET WSBIM1293 ET WFARM1282 ET WSBIM1201T ET WSBIM1200
- WFARM1221S - Biochemistry and molecular biology
  - WSBIM1226 - Molecular biology (including epigenetics) and tutorials
  - WSBIM1227 - Molecular biology and integrated biochemistry
  - WMDS1230 - Biologie cellulaire médicale et expérimentale
  - WSBIM1293 - Training course in cell biology
  - WFARM1282 - General microbiology
  - WSBIM1201T - General physiology - General physiology (theory part, 40h)
  - WSBIM1200 - Biomedical instrumental analysis and radiation protection
- WSBIM1303T** "Ateliers de stratégie expérimentale en biologie cellulaire et moléculaire (théorie)" has prerequisite(s) WFARM1221S ET WSBIM1226 ET WSBIM1227 ET WMDS1230 ET WSBIM1293 ET WFARM1282 ET WSBIM1201T ET WSBIM1200
- WFARM1221S - Biochemistry and molecular biology
  - WSBIM1226 - Molecular biology (including epigenetics) and tutorials
  - WSBIM1227 - Molecular biology and integrated biochemistry
  - WMDS1230 - Biologie cellulaire médicale et expérimentale
  - WSBIM1293 - Training course in cell biology
  - WFARM1282 - General microbiology
  - WSBIM1201T - General physiology - General physiology (theory part, 40h)
  - WSBIM1200 - Biomedical instrumental analysis and radiation protection
- WSBIM1305** "Introduction à la nutrition humaine" has prerequisite(s) WFARM1221S ET WSBIM1206
- WFARM1221S - Biochemistry and molecular biology
  - WSBIM1206 - From nutrient to food
- WSBIM1320** "Introduction aux approches expérimentales de la biologie cellulaire et moléculaire" has prerequisite(s) WSBIM1226 ET WSBIM1227 ET WMDS1230 ET WSBIM1211 ET LANGL1855 ET WSBIM1200
- WSBIM1226 - Molecular biology (including epigenetics) and tutorials
  - WSBIM1227 - Molecular biology and integrated biochemistry
  - WMDS1230 - Biologie cellulaire médicale et expérimentale
  - WSBIM1211 - Methodology of cell and molecular biology
  - LANGL1855 - Medical English
  - WSBIM1200 - Biomedical instrumental analysis and radiation protection
- WSBIM1322** "Bioinformatique" has prerequisite(s) WFARM1247 ET WSBIM1207 ET LANGL1855
- WFARM1247 - Statistical data processing
  - WSBIM1207 - Introduction to bioinformatics
  - LANGL1855 - Medical English
- WSBIM1323** "Neurosciences systémiques" has prerequisite(s) WSBIM1201T ET WSBIM1201P ET WSBIM1220
- WSBIM1201T - General physiology - General physiology (theory part, 40h)
  - WSBIM1201P - General physiology - General physiology (practical part, 25h)
  - WSBIM1220 - Neurobiology
- WSBIM1334** "Immunologie générale" has prerequisite(s) WFARM1221S ET WSBIM1226 ET WSBIM1227 ET WMDS1230 ET WFARM1282
- WFARM1221S - Biochemistry and molecular biology
  - WSBIM1226 - Molecular biology (including epigenetics) and tutorials
  - WSBIM1227 - Molecular biology and integrated biochemistry
  - WMDS1230 - Biologie cellulaire médicale et expérimentale
  - WFARM1282 - General microbiology
- WSBIM1382** "Génétique et biotechnologie appliquée" has prerequisite(s) WFARM1221S ET WSBIM1226 ET WSBIM1227 ET WMDS1230 ET WFARM1282
- WFARM1221S - Biochemistry and molecular biology
  - WSBIM1226 - Molecular biology (including epigenetics) and tutorials
  - WSBIM1227 - Molecular biology and integrated biochemistry
  - WMDS1230 - Biologie cellulaire médicale et expérimentale
  - WFARM1282 - General microbiology
- WSBIM1393** "Stage en laboratoire" has prerequisite(s) WFARM1213S ET WFARM1221S ET WSBIM1226 ET WSBIM1227 ET WMDS1230 ET WSBIM1293 ET WSBIM1201T ET WSBIM1201P
- WFARM1213S - Human physiology and basics of physiopathology - (Partim SBIM)
  - WFARM1221S - Biochemistry and molecular biology
  - WSBIM1226 - Molecular biology (including epigenetics) and tutorials
  - WSBIM1227 - Molecular biology and integrated biochemistry
  - WMDS1230 - Biologie cellulaire médicale et expérimentale
  - WSBIM1293 - Training course in cell biology
  - WSBIM1201T - General physiology - General physiology (theory part, 40h)
  - WSBIM1201P - General physiology - General physiology (practical part, 25h)

## The programme's courses and learning outcomes

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

## Detailed programme per annual block

### SBIM1BA - 1ST ANNUAL UNIT

- Mandatory
- ⊗ Optional
- △ Not offered in 2022-2023
- ⊙ Not offered in 2022-2023 but offered the following year
- ⊕ Offered in 2022-2023 but not the following year
- △ ⊕ Not offered in 2022-2023 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

### o Majeure

#### o 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 Geoffroy Piroux (compensates Fabio Maltoni)	[FR] [q1] [60h +21h] [8 Credits] 🌐
○ WMD1104	Physique expérimentale et introduction mathématique aux sciences expérimentales (2e partie)	Michel Herquet (compensates Fabio Maltoni)	[FR] [q2] [30h +21h] [5 Credits] 🌐
○ WSBIM1001	MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES	Pierre Bieliavsky Annie Robert	[FR] [q2] [45h +20h] [5 Credits] 🌐
○ WMD1105	Chimie générale et minérale	Mark Rider (coord.) Alexandru Vlad	[FR] [q1] [60h +30h] [9 Credits] 🌐
○ WMD1106	ORGANIC CHEMISTRY	Olivier Riant Michael Singleton	[FR] [q2] [60h +30h] [9 Credits] 🌐

#### o De la cellule à l'être humain

○ WMD1120	General biology and an experimental approach to biology	Charles De Smet Jean Baptiste Demoulin (coord.) Pascal Kienlen-Campard	[FR] [q1] [75h +25h] [10 Credits] 🌐
○ 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] 🌐

#### o L'homme et la société : approche contextuelle

○ WFARM1160	Philosophy	Charlotte Luycx (compensates Mylene Botbol)	[FR] [q1] [30h] [3 Credits] 🌐
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<p>○ LANGL1854</p>	<p>Medical English</p>	<p>Julie Callens (compensates Ariane Halleux) Aurélie Deneumoustier Carlo Lefevre (coord.) Hila Peer Mark Theodore Pertuit Marine Volpe (compensates Ariane Halleux)</p>	<p>EN [q2] [30h] [3 Credits] ⓘ</p>
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**SBIM1BA - 2ND ANNUAL UNIT**

- Mandatory
- ⊗ Optional
- △ Not offered in 2022-2023
- ⊖ Not offered in 2022-2023 but offered the following year
- ⊕ Offered in 2022-2023 but not the following year
- △ ⊕ Not offered in 2022-2023 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

**o Majeure****o Des atomes, des molécules et des systèmes qui les régissent**

○ WFARM1221S	Biochemistry and molecular biology ■	Nathalie Delzenne (coord.)	ES [q1] [50h +10h] [6 Credits] 🌐
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**o De la cellule à l'être humain**

○ WSBIM1226	Molecular biology (including epigenetics) and tutorials ■	Charles De Smet Frédéric Lemaigre Thomas Michiels (coord.)	ES [q1] [30h +10h] [3 Credits] 🌐
○ WSBIM1227	Molecular biology and integrated biochemistry ■	Luc Bertrand	ES [q2] [20h +30h] [3 Credits] 🌐
○ WMDS1230	Biologie cellulaire médicale et expérimentale ■	Stefan Constantinescu (coord.) Christophe Pierreux Donatienne Tyteca	ES [q1] [30h +20h] [4 Credits] 🌐
○ WSBIM1201T	General physiology - General physiology (theory part, 40h) ■	Olivier Feron Patrick Gilon	ES [q1] [40h] [4 Credits] 🌐
○ WSBIM1201P	General physiology - General physiology (practical part, 25h) ■	Olivier Feron Patrick Gilon	ES [q1] [0h +25h] [2 Credits] 🌐
○ WSBIM1203	Special histology and hematology ■	Christophe Pierreux (coord.) Mieke Van Bockstal	ES [q1] [15h +15h] [3 Credits] 🌐
○ WFARM1282	General microbiology ■	Thomas Michiels	ES [q1] [20h +15h] [3 Credits] 🌐
○ WSBIM1200	Biomedical instrumental analysis and radiation protection ■	Giulio Muccioli	ES [q1] [30h +30h] [4 Credits] 🌐 > English-friendly
○ WFARM1213S	Human physiology and basics of physiopathology - (Partim SBIM) ■	Olivier Feron (coord.) Philippe Lysy	ES [q2] [50h] [5 Credits] 🌐 > English-friendly
○ WSBIM1293	Training course in cell biology ■	Nicolas Dauguet Laure Dumoutier (coord.)	ES [q2] [30h] [2 Credits] 🌐

**o L'homme et la société : approche contextuelle**

○ WFARM1247	Statistical data processing ■	Eugen Pircalabelu	ES [q2] [15h +15h] [3 Credits] 🌐
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○ LANGL1855	Medical English 🇺🇸	Timothy Byrne (coord.) Aurélie Deneumoustier Carlo Lefevre (coord.)	FR [q1 or q2] [30h] [3 Credits] 🌐
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### ⌘ Additional module in Biomedical Sciences

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

#### ○ Deuxième bloc annuel de bachelier

L'étudiant est tenu de suivre les cours suivants :

○ WSBIM1205	Introduction to toxicology 🇺🇸	Lidvine Boland Nathalie Delzenne Philippe Hantson Vincent Hautroid Perrine Hoet (coord.) François Huaux	FR [q2] [30h] [3 Credits] 🌐
○ WSBIM1211	Methodology of cell and molecular biology 🇺🇸	Guido Bommer Jean-François Collet (coord.) Stefan Constantinescu Donatienne Tyteca	FR [q2] [22.5h] [3 Credits] 🌐
○ WSBIM1206	From nutrient to food 🇺🇸	Sonia Brichard Jean-Paul Thissen (coord.)	FR [q1] [30h] [3 Credits] 🌐 > English- friendly
○ WSBIM1220	Neurobiology 🇺🇸	Emmanuel Hermans (coord.) Aleksandar Jankovski Pascal Kienlen-Campard Marcus Missal	FR [q2] [30h] [3 Credits] 🌐 > English- friendly
○ WSBIM1207	Introduction to bioinformatics 🇺🇸	Laurent Gatto	FR [q2] [15h +20h] [3 Credits] 🌐

### ⌘ Minor or additional module

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

**SBIM1BA - 3RD ANNUAL UNIT**

- Mandatory
- ⊗ Optional
- △ Not offered in 2022-2023
- ⊖ Not offered in 2022-2023 but offered the following year
- ⊕ Offered in 2022-2023 but not the following year
- △ ⊕ Not offered in 2022-2023 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

**o Majeure****o Des atomes, des molécules et des systèmes qui les régissent**

○ WPHAR1300	Pharmacology Part 1 ■	Emmanuel Hermans Joseph Lorent	FR [q1] [30h] [3 +7.5h] [3 Credits] 🌐 > English- friendly
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**o De la cellule à l'être humain**

○ WANAT1110	Human embryology ■	Charles De Smet (coord.) Christophe Pierreux	FR [q2] [30h] [3 Credits] 🌐
○ WSBIM1204	Histology and pathological anatomy workshop ■	Yves Guiot Christophe Pierreux (coord.) Mieke Van Bockstal	FR [q2] [30h] [2 Credits] 🌐
○ WMDS1231	Biochimie humaine pathologique ■	Guido Bommer Jean-François Collet Frédéric Lemaigre (coord.)	FR [q2] [30h] [3 Credits] 🌐 > English- friendly
○ WMDS1229	Génétique humaine ■	Miikka Viikkula	FR [q2] [20h] [2 Credits] 🌐 > English- friendly
○ WSBIM1334	general immunology ■	Isabelle Leclercq Julian Leprince Sophie Lucas (coord.) Benoit Van den Eynde Nathalie Vigneron (compensates Jean- Christophe Renaud)	FR [q1] [65h] [6 Credits] 🌐 > English- friendly
○ WSBIM1382	Genetics and applied biotechnology ■	Luc Bertrand (coord.) Laure Dumoutier Géraldine Laloux Nisha Limaye	FR [q1] [30h] [3 Credits] 🌐 > English- friendly
○ WSBIM1302	Molecular Virology ■	Thomas Michiels	FR [q1] [25h] [3 Credits] 🌐
○ WFARM1305	Elements of General Pathology ■	Mélanie Dechamps Olivier Feron (coord.)	FR [q2] [30h] [3 Credits] 🌐 > English- friendly
○ WSBIM1303P	Workshop on experimental strategy in cellular and molecular biology ■	Luc Bertrand Pascal Kienlen- Campard (coord.)	FR [q2] [30h] [3 Credits] 🌐 > English- friendly
○ WSBIM1303T	Workshop on experimental strategy in cellular and molecular biology (theory) ■	Luc Bertrand Pascal Kienlen- Campard (coord.)	FR [q1] [30h] [3 Credits] 🌐 > English- friendly



### o L'homme et la société : approche contextuelle

WFARM1202	Eléments d'épidémiologie appliquée aux sciences pharmaceutiques et biomédicales	Marie Lambert (compensates) Séverine Henrard	ES [q2] [20h] [2 Credits] > English-friendly
WFARM2177	Biostatistics	Laure Elens	ES [q2] [20h +10h] [3 Credits]
LANGL2454	English for biomedical students	Nicholas Gibbs Nevin Serbest (coord.)	ES [q2] [30h] [3 Credits]

### o Stage en laboratoire

WSBIM1393	Laboratory training	Pascal Kienlen-Campard	ES [q2] [30h] [3 Credits]
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### ⌘ Additional module in Biomedical Sciences

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

#### o Troisième bloc annuel de bachelier

L'étudiant est tenu de suivre les cours suivants :

WFARM2139T	Pharmacocinetic, genomics and toxicology (toxicology part)	Laure Bindels (coord.)	ES [q1] [22h] [3 Credits] > English-friendly
WSBIM1320	Introduction to experimental approaches in cellular and molecular biology	Luc Bertrand Anne des Rieux Sandrine Horman Donatienne Tyteca (coord.)	ES [q2] [30h] [3 Credits]
WSBIM1305	Introduction to human nutrition	Véronique Beauloye Sonia Brichard Nathalie Delzenne (coord.)	ES [q1] [30h] [3 Credits]
WSBIM1323	Systemic neuroscience	Philippe Gailly Pascal Kienlen-Campard Marcus Missal (coord.)	ES [q1] [30h] [3 Credits]
WSBIM1322	Bioinformatics	Laurent Gatto	ES [q1] [30h +10h] [3 Credits]

### ⌘ Minor or additional module

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

## SBIM1BA - Information

### Access Requirements

*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 access requirements](#)
- [Specific access requirements](#)
- [Access based on validation of professional experience](#)
- [Special requirements to access some programmes](#)

### General access 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) (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, 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 to the Equivalence department ([Service des équivalences](#)) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium in compliance with the official deadline.

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.

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 access requirements

- To be eligible to apply to a bachelor's programme, holder of a non-belgian degree who do not have Belgian student status must also:
  - have earned a secondary school degree within the last three years;
  - not already hold a bachelor's degree; and,
- Candidates, whatever their nationality, with a secondary school diploma from a country outside the European Union, must have obtained an average of 13/20 minimum or, failing that, have obtained this average, have passed one year of study in Belgium (for example special Maths / sciences).
- 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](#).

- Not to have obtained a secondary education diploma for more than 3 years maximum. Example: for an admission application for the academic year 2021-2022, you must have obtained your diploma during the academic years 2018-2019, 2019-2020 or 2020-2021. In the French Community of Belgium, the academic year runs from September 14 to September 13.[l\\_information/2021/common-bachelor/](#)

## 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) (<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-contingentes.html) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.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-contingentes.html). (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.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-contingentes.html) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).

- 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 \(non-residents\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html). (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.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-contingentes.html) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).

## Teaching method

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Throughout the Bachelor in Biomedicine programme, students encounter a variety of teaching methods: classroom lectures, tutoring, mentoring and practical laboratory work.

The substantial amount of laboratory work was introduced to enable learning in research through experimentation. It is also identified in the programme in relation to classroom lectures.

## Evaluation

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***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".***

The educational activities are evaluated by written or oral exams, according to the rules in force at the University (see Exam Regulations). Examination sessions are organised on completion of training periods (January, June) and in September. The practical work is subject to ongoing assessment.

## Mobility and/or Internationalisation outlook

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Aucune mobilité d'étudiant est prévue au cours du 1er cycle des études de sciences biomédicales.

## Possible trainings at the end of the programme

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Positioning of the programme within the University cursus

The bachelor's degree entitles access to the master's of Biomedical Sciences which comprises four sections : Applied Biomedical Sciences, Clinical Biomedical Sciences, Human Nutrition and Toxicology.

Furthermore, there is sufficient homogeneity within the programmes offered by the different schools of the Faculty of Medicine (MED, FARM, DENT, SBIM, IEPR) to make re-orientation possible during the bachelor's studies by means of additional complementary courses.

Other studies accessible upon completion of the programme

Other masters offered by the Faculty of Medicine, as well as certain programmes in the Faculty of Sciences, may be accessible, subject to certain prerequisites.

## Contacts

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### Curriculum Management

Entity

Structure entity

Denomination

Faculty

Sector

Acronym

Postal address

SSS/FASB/SBIM

([SBIM](#))

Faculty of Pharmacy and Biomedical Sciences ([FASB](#))

Health Sciences ([SSS](#))

SBIM

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