

At Bruxelles Woluwe - 60 credits - 1 year - Day schedule - In French

Dissertation/Graduation Project : **YES** - Internship : **optional**

Activities in English: **YES** - 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: **SBIM2M1** - Francn83

- 2 credits for religious,
- 20 credits for option courses,
- 6 credits for optional subjects.

SBIM2M1 Programme

Detailed programme by subject

CORE COURSES [40.0]

- Mandatory
 - ⌘ Optional
 - △ Not offered in 2024-2025
 - ⊙ Not offered in 2024-2025 but offered the following year
 - ⊕ Offered in 2024-2025 but not the following year
 - ⌘ Optional
-

o Cours au choix (8 credits)

L'étudiant choisit au minimum 8 crédits de cours dans l'ensemble du programme de Master 120 en sciences biomédicales. Sous condition de l'accord du responsable de programme et du promoteur du mémoire, l'étudiant peut éventuellement choisir les activités de Work placement (WSBIM2272) ou Research placement (WSBIM2273).

OPTIONS

- > [Option pathophysiologie cellulaire et moléculaire](#) [en-prog-2024-sbim2m1-wsbim904o]
- > [Option neurosciences](#) [en-prog-2024-sbim2m1-wsbim907e]

○ WSBIM2284	Cellular and molecular pathophysiology of human diseases (Part 2) <i>Ce cours ne sera plus donné en 2025-2026 ; à la place, l'étudiant.e aura le choix entre 3 cours en lien avec le Développement durable et la transition (LBIR2050A, WFARM1375 et WSBIM2139)</i>	Christiani Andrade Amorim Luc Bertrand Cyril Corbet Chantal Dessy Laure Dumoutier Patrick Henriet Sandrine Horman Jean-Christophe Jonas (coord.)	EN [q2] [10h+20h] [3 Credits] 🌐
○ WSBIM2218	Special issues in molecular and cellular pathophysiology	Christiani Andrade Amorim Luc Bertrand Cyril Corbet Chantal Dessy Laure Dumoutier Antoine Froidure Bernard Hanseeuw Patrick Henriet Sandrine Horman Jean-Christophe Jonas (coord.) Shakeel Kautbally Pietro Maggi Julie Stockis	EN [q2] [30h] [3 Credits] 🌐

○ Cours au choix

L'étudiant choisit 10 crédits parmi les unités d'enseignement ci-dessous.

⌘ WSBIM2215	Post-translational regulation of proteins	Luc Bertrand (coord.) Guido Bommer Jean-François Collet Jean Baptiste Demoulin	EN [q1] [20h] [2 Credits] 🌐 > English-friendly
⌘ WSBIM2141P	Intercellular signaling and tumor biology - Intercellular signaling and tumor biology (part)	Frédéric Lemaigre (coord.)	EN [q1] [20h] [2 Credits] 🌐 > English-friendly
⌘ WSBIM2181	Molecular and cellular aspects of nutrition	Luc Bertrand Patrice Cani (coord.) Patrick Gilon Nicolas Lanthier Maria Veiga da Cunha	EN [q1] [30h] [4 Credits] 🌐
⌘ WSBIM2185	Cellular and molecular pathophysiology of human diseases	Luc Bertrand Cyril Corbet Laure Dumoutier Patrick Henriet Sandrine Horman Jean-Christophe Jonas (coord.) Pietro Maggi	EN [q1] [30h] [3 Credits] 🌐
⌘ WSBIM2116	Maladies inflammatoires, auto-immunitaires et cancer: aspects immunologiques	Laure Dumoutier (coord.) Sophie Lucas Jean-Christophe Renauld Pierre van der Bruggen	EN [q1] [20h+10h] [3 Credits] 🌐 > English-friendly
⌘ WSBIM2229	Interdisciplinary program in translational medicine		

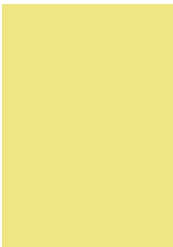
OPTION NEUROSCIENCES [20.0]

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 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 Content:

○ WSBIM2154	Neuroanatomy and anatomo-functional imaging techniques		FR [q1] [30h] [4 Credits] 🌐
○ WSBIM2155	Developmental neurobiology	Fadel Tissir	FR [q1] [30h] [4 Credits] 🌐
○ WSBIM2156	Animal and human electrophysiology project	Philippe Gailly (coord.) Marcus Missal André Mouraux	FR [q1] [20h] [2 Credits] 🌐
⊗ WSBIM2251	Neural networks and Deep Learning <i>Ce cours doit être choisi par les étudiants inscrits au master 120.</i>	John Lee Marcus Missal (coord.)	EN [q2] [20h+10h] [3 Credits] 🌐
⊗ WSBIM2253	Advanced issues in cognitive neuroscience <i>Ce cours doit être choisi par les étudiants inscrits au master 120.</i>	Julie Duque Valéry Legrain Marcus Missal (coord.)	EN [q2] [30h+10h] [4 Credits] 🌐
⊗ WSBIM2255	Seminar on neurological and psychiatric disease <i>Ce cours doit être choisi par les étudiants inscrits au master 120.</i>	Philippe de Timary Rièm El Tahry Bernard Hanseeuw Emmanuel Hermans (coord.) Marie-Cécile Nassogne	EN [q2] [30h] [3 Credits] 🌐
⊗ WFARM1375	Drugs and sustainable development <i>Ce cours ne peut être choisi que par les étudiants inscrits en master 60.</i>	Nathalie Delzenne (coord.) Raphaël Frédérick Pauline Modrie Anne Spinewine Sandy Tubeuf Françoise Van Bambeke	FR [q2] [10h+20h] [3 Credits] 🌐
⊗ LBIR2050A	Challenges of sustainable development and transition <i>Ce cours ne peut être choisi que par les étudiants inscrits en master 60.</i>	Valentin Couvreur Nathalie Delzenne Valérie Swaen	FR [q1 or q2] [22.5h] [3 Credits] 🌐
⊗ WSBIM2229	Interdisciplinary program in translational medicine <i>Ce cours ne peut être choisi que par les étudiants inscrits au master 120. Ce programme interuniversitaire est financé par le Fond Baillet Latour. Plus de renseignements sur le site.</i> <i>L'intégration de ce cours dans votre PAE sera hors progression. Les crédits acquis n'entreront pas en considération dans l'acquisition des 120 crédits obligatoires pour l'obtention de votre diplôme de master.</i>		FR [q2] [50h] [5 Credits] 🌐



OPTION TOXICOLOGIE [20.0]

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 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 Content:**o Cours obligatoires**

● WSBIM2290	Introduction to laboratory animal science	Jean-Paul Dehoux	[FR] [q1] [37h] [3 Credits] 🌐
● WSBIM2137	Nutrition and environment: biological and toxicological aspects	Philippe de Timary Cathy Debier Nathalie Delzenne (coord.) Sandrine Ellero-Simatos (compensates Laure Bindels) Amandine Everard Françoise Smets	[FR] [q1] [30h] [4 Credits] 🌐 > English-friendly

o Cours au choix

L'étudiant choisit minimum 3 crédits parmi les cours suivants.

⊗ WFARM1303	Clinical Chemistry	Joseph Dewulf Catherine Fillee Damien Gruson Vincent Haufroid (coord.) Madeleine Rousseaux	[FR] [q2] [20h] [2 Credits] 🌐
⊗ WFARM2180	Organotoxicity : molecular, cellular and functional aspects	Olivier Feron (coord.) Philippe Lysy Xavier Wittebole	

Supplementary classes


To access this Master, students must have a good command of certain subjects. If this is not the case, in the first annual block of their Masters programme, students must take supplementary classes chosen by the faculty to satisfy course prerequisites.

- Mandatory
- ✘ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 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...)

From 15 to 60credit(s)

● WFARM1221S	Biochemistry and molecular biology	Nathalie Delzenne (coord.)	FR [q1] [50h+10h] [6 Credits] 🌐

● WFARM1305	Elements of General Pathology	Mélanie Dechamps Olivier Feron (coord.)	PK [q2] [30h] [3 Credits]  > English-friendly

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.

SBIM2M1 - Information

Access Requirements

Master course admission requirements are defined by the French Community of Belgium Decree of 7 November 2013 defining the higher education landscape and the academic organisation of courses.

General and specific admission requirements for this programme must be satisfied at the time of enrolling at the university.

Unless explicitly mentioned, the bachelor's, master's and licentiate degrees listed in this table or on this page are to be understood as those issued by an institution of the French, Flemish or German-speaking Community, or by the Royal Military Academy.

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](#)
- > [University Bachelors](#)
- > [Non university Bachelors](#)
- > [Holders of a 2nd cycle University degree](#)
- > [Holders of a non-University 2nd cycle degree](#)
- > [Access based on validation of professional experience](#)
- > [Access based on application](#)
- > [Admission and Enrolment Procedures for general registration](#)

University Bachelors

Diploma	Special Requirements	Access	Remarks
UCLouvain Bachelors			
Bachelor in Biomedicine		Direct access	
Bachelor in Dentistry Bachelor in Medecine Bachelor in Pharmacy		Access with additional training	Additional requirements for admission

bachelor of Science in de fysica

Foreign Bachelors

diplôme universitaire jugé équivalent dans des domaines autres que ceux repris ci-dessus ou ayant acquis une expérience pouvant être valorisée dans le domaine des sciences biomédicales

Access based on application

Additional requirements for admission de max 60 crédits intégrés dans le programme du master

Non university Bachelors

> Find out more about [links](#) to the university

Diploma	Access	Remarks
BA - sage-femme - crédits supplémentaires entre 15 et 30	Les enseignements supplémentaires éventuels peuvent être consultés dans le module complémentaire .	Type court
BA - technologue de laboratoire médical - crédits supplémentaires entre 30 et 60		
BA - technologue en imagerie médicale - crédits supplémentaires entre 30 et 60		
BA de spécialisation en anesthésie - crédits supplémentaires entre 15 et 30		
BA de spécialisation en soins intensifs et aide médicale urgente - crédits supplémentaires entre 15 et 30		
BA en chimie, orientation biochimie - crédits supplémentaires entre 30 et 60		
BA en chimie, orientation biotechnologie - crédits supplémentaires entre 30 et 60		
BA en chimie, orientation chimie appliquée - crédits supplémentaires entre 30 et 60		
BA en chimie, orientation environnement - crédits supplémentaires entre 30 et 60		
BA en diététique - crédits supplémentaires entre 30 et 60		
BA en ergothérapie - crédits supplémentaires entre 30 et 60		
BA en soins infirmiers - crédits supplémentaires entre 30 et 60		
BA en soins infirmiers pour titulaires d'un brevet d'infirmier hospitalier - crédits supplémentaires entre 30 et 60		
BA: infirmier responsable de soins généraux - crédits supplémentaires entre 15 et 30		

Holders of a 2nd cycle University degree

Diploma	Special Requirements	Access	Remarks
"Licenciés"			
		Direct access	
Masters			
Master [120] in Biochemistry and Molecular and Cell Biology		Access with additional training	
Master [120] in Pharmacy		Access based on application	

Holders of a non-University 2nd cycle degree

Access based on validation of professional experience

> It is possible, under certain conditions, to use one's personal and professional experience to enter a university course without having the required qualifications. However, validation of prior experience does not automatically apply to all courses. Find out more about [Validation of priori experience](#).

Access based on application

Access based on application : access may be granted either directly or on the condition of completing additional courses of a maximum of 60 ECTS credits, or refused.

Admission and Enrolment Procedures for general registration

Teaching method

The teaching methods used in the Master programme place the student in active learning situations with a balanced mix of group and individual work.

In addition, there will be a variety of different teaching methods : lectures, exercise sessions, problem solving activities, assignments to

