

**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** - Francophone Certification Framework: 7**Table of contents**

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## SBIM2M1 - Introduction

### Introduction

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## SBIM2M1 - Teaching profile

### Learning outcomes

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The programme of the 60 credit Master is open to any students who wish to undergo additional training in biomedical sciences without having to do the two years of the full Master.

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

1 Use integrated and evolving knowledge in biomedical sciences

1.a Use general knowledge and methodologies in experimental biomedical sciences: normal and pathological biochemistry and molecular biology, cell biology, general and special histology, general anatomy, general and special physiology.

1.b Understand and criticize the experimental approaches and observation methods that led to this knowledge.

1.c Master the modern sources of knowledge and be able to effectively search for new and specific information, and criticize it.

2

Analyze, criticize, and propose perspectives of experiments in biomedical sciences

2.a

Analyze the observations in a rigorous and critical way:

Ea:

- develop analogical and deductive reasoning;
- establish links of correlation and causality;
- track down and correct logic errors.

2.b

Interpret and represent experimental results through mathematical modeling, graphical representations, reasoning and statistical tools:

Ea:

- exploit the dispersion of continuous variables as a source of information.

2.c Exploit the results of biological or clinical analyzes recorded in databases.

2.d Demonstrate creativity, recognizing failures and seeking the cause; recognizing unexpected observations and identifying their interest; by reformulating initial hypotheses, by elaborating new hypotheses.

3

Communicate both orally and in writing

3.a Enrich his vocabulary in biomedical sciences and use it accurately and nuanced in French and scientific English.

3.b

Write, in French and in English, scientific reports based on the standards of scientific publication in the biomedical sciences:

Ea:

- to argue the relevance of the experimental procedures and the proposed conclusions;
- to compare the data with those of comparable studies published in the scientific literature;
- to identify possible divergences between different studies, to propose the possible causes.

3.c Present oral communication in accordance with scientific standards in the biomedical sciences.

4 Be a professional researcher to start a scientific career

4.a Be a professional researcher to start a scientific career

4.b

Practice scientific integrity:

Ea:

- consider all available data, including those that do not support the advanced hypothesis;
- cite his sources and ban plagiarism.

4.c Develop scientific curiosity and participate in the dissemination of knowledge built on rigorous scientific data

### Programme structure

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The contents of the programme are determined according to the background and the project of each student.

It is made up of :

- 15 credits devoted to the dissertation,
- 17 credits of basic biomedical sciences,

- 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 2021-2022
- ⊙ Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

#### ○ Mémoire (17 credits)

○ WSBIM2061	Biomedical sciences dissertation support seminar	Charles De Smet	FR [q2] [12h] [2 Credits]
○ WSBIM2060	Bibliographic dissertation in biomedical sciences		FR [] [] [15 Credits]

#### ○ Formation aux sciences de base en sciences biomédicales (13 credits)

○ WSBIM2114	Advanced cellular and molecular biology (Part 1)	Emmanuel Hermans Frédéric Lemaigre (coord.) Nisha Limaye Nisha Limaye (compensates Jean Baptiste Demoulin) Thomas Michiels Donatienne Tyteca	EN [q1] [39h] [4 Credits]
○ WSBIM2115	Protein structure / Function relationships	Luc Bertrand Jean-François Collet Géraldine Laloux Mark Rider (coord.)	EN [q1] [30h] [3 Credits]
○ WSBIM2280	Scientific communication workshop	Luc Bertrand Frédéric Clotman Cyril Corbet Charles De Smet (coord.) Nisha Limaye	EN [q1] [30h] [3 Credits]
○ WFARM2104	GOOD MANUFACTURING AND QUALITY	Joëlle Leclercq (coord.) Thierry Ponce Véronique Prétat	FR [q2] [30h+15h] [3 Credits]

#### ○ Sciences religieuses (2 credits)

*L'étudiant choisit un cours parmi les suivants :*

⊗ LTECO2101	Questions of religious sciences: biblical readings	Claude Lichtert	FR [q1] [15h] [2 Credits]
⊗ LTECO2102	Questions of religious sciences: reflections about christian faith	Arnaud Join-Lambert	FR [q1] [15h] [2 Credits]
⊗ LTECO2103	Questions of religious sciences: questions about ethics	Dominique Jacquemin (compensates Eric Gaziaux)	FR [q1] [15h] [2 Credits]

**o Cours au choix (8 credits)**

*L'étudiant choisit 8 crédits de cours dans l'ensemble du programme de Master 120 en sciences biomédicales, y compris (éventuellement) les activités de stage en entreprise, en concertation avec les responsables de programme et le promoteur du mémoire.*

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**OPTIONS**

- > Option pathophysiologie cellulaire et moléculaire [ en-prog-2021-sbim2m1-wsbim904o ]
- > Option neurosciences [ en-prog-2021-sbim2m1-wsbim907o ]
- > Option cancérologie [ en-prog-2021-sbim2m1-wsbim908o ]
- > Option toxicologie [ en-prog-2021-sbim2m1-wsbim935o ]
- > Option sciences biomédicales cliniques [ en-prog-2021-sbim2m1-wsbim936o ]
- > Option nutrition humaine [ en-prog-2021-sbim2m1-wsbim937o ]

**OPTION PATHOPHYSIOLOGIE CELLULAIRE ET MOLÉCULAIRE [20.0]**

- Mandatory
- ⊗ Optional
- △ Not offered in 2021-2022
- ⊙ Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

**o Content:****⊗ Programme des étudiants inscrits en master 60**

L'étudiant suit les cours suivants :

○ WSBIM2215	Post-translational regulation of proteins	Luc Bertrand (coord.) Guido Bommer Jean-François Collet Jean Baptiste Demoulin Mark Rider	FR [q1] [20h] [2 Credits]
○ WSBIM2141P	Intercellular signaling and tumor biology - Intercellular signaling and tumor biology (part)	Frédéric Lemaigre (coord.)	FR [q1] [20h] [2 Credits]
○ WSBIM2184	Cellular and molecular pathophysiology of human diseases (Part 1)	Christophe Beauloye Olivier Feron Jean-Christophe Jonas (coord.) Pascal Kienlen-Campard Charles Pilette	EN [q1] [30h] [3 Credits]
○ WSBIM2113	Microorganisms and immunity	Jean-Paul Coutelier	FR [q1] [20h+10h] [3 Credits]
○ WSBIM2285	In-session seminar in molecular biology	Frédéric Lemaigre	EN [q2] [30h] [4 Credits]
○ WSBIM2284	Cellular and molecular pathophysiology of human diseases (Part 2)	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]
○ WSBIM2216	Inflammatory and autoimmune diseases and cancer: immunological aspects	Pierre Coulie (coord.) Laure Dumoutier Sophie Lucas	FR [q2] [20h+10h] [3 Credits]

**⊗ Programme des étudiants inscrits en master 120****o Cours obligatoires**

○ WSBIM2285	In-session seminar in molecular biology	Frédéric Lemaigre	EN [q2] [30h] [4 Credits]
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○ WSBIM2284	Cellular and molecular pathophysiology of human diseases (Part 2)	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]
○ WSBIM2216	Inflammatory and autoimmune diseases and cancer: immunological aspects	Pierre Coullie (coord.) Laure Dumoutier Sophie Lucas	FR [q2] [20h+10h] [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 Mark Rider	FR [q1] [20h] [2 Credits]
⊗ WSBIM2141P	Intercellular signaling and tumor biology - Intercellular signaling and tumor biology (part)	Frédéric Lemaigre (coord.)	FR [q1] [20h] [2 Credits]
⊗ WSBIM2181	Molecular and cellular aspects of nutrition	Luc Bertrand Patrice Cani (coord.) Patrick Gilon Nicolas Lanthier Maria Veiga da Cunha	FR [q1] [30h] [4 Credits]
⊗ WSBIM2184	Cellular and molecular pathophysiology of human diseases (Part 1)	Christophe Beauloye Olivier Feron Jean-Christophe Jonas (coord.) Pascal Kienlen-Campard Charles Pilette	EN [q1] [30h] [3 Credits]
⊗ WSBIM2113	Microorganisms and immunity	Jean-Paul Coutelier	FR [q1] [20h+10h] [3 Credits]
⊗ WSBIM2229	Interdisciplinary program in translational medicine <i>Ce programme interuniversitaire est financé par le Fond Baillet Latour. Plus de renseignements sur le site <a href="http://i3health.eu/seminar-2/">http://i3health.eu/seminar-2/</a></i>		FR [q2] [50h] [5 Credits]

**OPTION NEUROSCIENCES [20.0]**

- Mandatory
- ⊗ Optional
- △ Not offered in 2021-2022
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- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

**o Content:**

○ WSBIM2154	<a href="#">Neuroanatomy and anatomo-functional imaging techniques</a>	Aleksandar Jankovski (coord.) John Lee	FR [q1] [30h] [4 Credits]
○ WSBIM2155	<a href="#">Developmental neurobiology</a>	Frédéric Clotman (coord.) Fadel Tissir	FR [q1] [30h] [4 Credits]
○ WSBIM2156	<a href="#">Animal and human electrophysiology project</a>	Philippe Gailly (coord.) Marcus Missal André Mouraux	FR [q1] [20h] [2 Credits]
○ WSBIM2251	<a href="#">Neural networks and Deep Learning</a>	John Lee Marcus Missal (coord.)	FR [q2] [20h+10h] [3 Credits]
○ WSBIM2253	<a href="#">Advanced issues in cognitive neuroscience</a>	Julie Duque Valéry Legrain Marcus Missal (coord.)	EN [q2] [30h+10h] [4 Credits]
○ WSBIM2255	<a href="#">Seminar on neurological and psychiatric disease</a>	Philippe de Timary Riém El Tahry Bernard Hanseeuw Emmanuel Hermans (coord.) Marie-Cécile Nassogne	EN [q2] [30h] [3 Credits]

**OPTION CANCÉROLOGIE [20.0]**

- Mandatory
- ⊗ Optional
- △ Not offered in 2021-2022
- ⊖ Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

**o Content:**

○ WSBIM2141	<a href="#">Intercellular signaling and tumor biology</a>	Stefan Constantinescu Anabelle Decottignies Olivier Feron Frédéric Lemaigre (coord.) Pierre Sonveaux	FR [q1] [30h] [3 Credits]
○ WSBIM2142	<a href="#">Tumor genetics and epigenetics</a>	Charles De Smet Jean Baptiste Demoulin (coord.) Violaine Havelange	FR [q1] [20h] [2 Credits]
○ WSBIM2143	<a href="#">Causes and risk factors for cancer</a> <i>L'étudiant de la finalité toxicologie doit choisir un autre cours pour une valeur de 2 crédits.</i>	Nathalie Delzenne Dominique Lison Etienne Marbaix (coord.)	FR [q1] [15h] [2 Credits]



○ WSBIM2144	Cancer diagnosis and therapy	Jean-François Baurain Pierre Coulie (coord.) Thierry Duprez Bernard Gallez Violaine Havelange Etienne Marbaix	FR [q1] [30h] [3 Credits]
○ WSBIM2244	Special issues in cancerology	Jean-François Baurain Laure Bindels Pierre Coulie Charles De Smet (coord.) Jean Baptiste Demoulin Olivier Feron Bernard Gallez Etienne Marbaix Pierre Sonveaux	EN [q2] [50h] [5 Credits]
○ WSBIM2245	In-session seminar in biomedicine	Jean-François Baurain Laure Bindels Pierre Coulie Charles De Smet (coord.) Jean Baptiste Demoulin Olivier Feron Bernard Gallez Etienne Marbaix Pierre Sonveaux	EN [q2] [50h] [5 Credits]

## OPTION TOXICOLOGIE [20.0]

- Mandatory
- ⊗ Optional
- △ Not offered in 2021-2022
- ⊖ Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- [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

○ WMD2290	Introduction à la science des animaux de laboratoire		FR [q1] [35h+10h] [3 Credits]
○ WMDTR3201S	Facteurs de risques chimiques en milieu professionnel (partim SBIM)		FR [q1] [15h] [2 Credits]
○ WMDTR3212	Aspects réglementaires en toxicologie	Dominique Lison Violaine Verougstraete	FR [q2] [22.5h] [2 Credits]

#### o Cours au choix

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

⊗ WFARM1300M	Pharmacokinetics and metabolism of xenobiotics - Pharmacokinetics and metabolism of xenobiotics (metabolism part)	Laure Bindels (compensates) Nathalie Delzenne Laure Elens	FR [q1] [10h+20h] [2 Credits]
⊗ WFARM1303	Clinical Chemistry	Joseph Dewulf Catherine Fillee Damien Gruson Vincent Haufroid (coord.) Marie-Astrid van Dievoet	FR [q2] [20h] [2 Credits]
⊗ WFARM2180	Organotoxicity : molecular, cellular and functional aspects	Olivier Feron (coord.) Philippe Hantson Philippe Lysy Xavier Wittebole	FR [q2] [30h+15h] [3 Credits]

WFARM2514	Drug dependence and addiction	Laure Bindels Philippe de Timary Sophie Gohy Philippe Hantson Vincent Haufroid Emmanuel Hermans (coord.) Denis Jacques Didier Lambert Peter Starkel Miikka Vikkula	EN [q2] [22.5h] [3 Credits]
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### o Stage obligatoire au choix (10 credits)

L'étudiant choisit un stage parmi les 2 suivants.

WSBIM2272	Work placement	Anabelle Decottignies (coord.)	EN [q2] [] [10 Credits]
WSBIM2273	Research internship, Part 2	Anabelle Decottignies (coord.)	EN [q2] [] [10 Credits]

**OPTION SCIENCES BIOMÉDICALES CLINIQUES [20.0]**

- Mandatory
- ⊗ Optional
- △ Not offered in 2021-2022
- ⊖ Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

**o Content:****o Métabolisme et pathologies particulières**

○ WSBIM2246P	<a href="#">Human toxicology</a> <i>L'étudiant de la finalité toxicologie doit choisir un autre cours pour une valeur de 3 crédits.</i>	Philippe Hantson	[FR] [q2] [30h] [4 Credits]
○ WSBIM2230	<a href="#">Biochemistry of inborn errors of metabolism</a>	Marie-Cécile Nassogne	[FR] [q1] [30h] [3 Credits]

**o Pathologie humaine**

*Students from the master 60 who choose this option in Clinical biomedical sciences will be offered two other courses of human pathology in agreement with their program manager*

○ WMDS1330T	<a href="#">Pathologie générale - (partim théorie)</a>		[FR] [q2] [36h] [3 Credits]
○ WFARM2104	<a href="#">GOOD MANUFACTURING AND QUALITY</a>	Joëlle Leclercq (coord.) Thierry Pronce Véronique Prétat	[FR] [q2] [30h+15h] [3 Credits]

**o Méthodes pour les études cliniques**

○ LSTAT2330	<a href="#">Statistics in clinical trials.</a>	Catherine Legrand Annie Robert	[FR] [q2] [22.5h+7.5h] [3 Credits]
○ WESP2123	<a href="#">Principes des essais cliniques</a>	Diego Castanares Zapatero Philippe Lysy Annie Robert (coord.) Françoise Smets	[FR] [q1] [20h+10h] [4 Credits]

**⊗ Autre activité**

*Selon son projet, l'étudiant peut remplacer des activités obligatoires de l'option par un stage en entreprise. Son programme d'année sera adapté en conséquence.*

⊗ WSBIM2272	<a href="#">Work placement</a>	Anabelle Decottignies (coord.)	[EN] [q2] [] [10 Credits]
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**OPTION NUTRITION HUMAINE [20.0]**

- Mandatory
- ⊗ Optional
- △ Not offered in 2021-2022
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- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

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

**o Content:****o Cours au choix**

Pour compléter l'option, l'étudiant choisit des cours pour un nombre de crédits permettant d'atteindre les minimum 20 crédits d'option. Pour les étudiants du master 120, si certains cours que choisit l'étudiant sont offerts dans une finalité spécialisée, le recouvrement, entre les cours de cette option et les cours d'une finalité spécialisée, ne peut excéder 6 crédits.

**o Cours au choix (10 crédits)**

L'étudiant choisit des cours pour atteindre un minimum de 10 crédits, parmi les cours proposés dans la liste ci-dessous, complétés de cours proposés dans tout autre programme d'autres facultés. Ce choix sera validé par la commission d'enseignement de la finalité.

⊗ WSBIM2230	Biochemistry of inborn errors of metabolism	Marie-Cécile Nassogne	(FR) [q1] [30h] [3 Credits]
⊗ WMD2290	Introduction à la science des animaux de laboratoire		(FR) [q1] [35h+10h] [3 Credits]
⊗ WFARM2149	Pharmaceutical approach in nutrition	Nathalie Delzenne	(FR) [q2] [30h+15h] [3 Credits]

**o Stage obligatoire au choix (10 crédits)**

L'étudiant choisit un stage parmi les suivants.

⊗ WSBIM2271	International research internship	Pascal Kienlen-Campard	(EN) [q2] [] [10 Credits]
⊗ WSBIM2272	Work placement	Anabelle Decottignies (coord.)	(EN) [q2] [] [10 Credits]
⊗ WSBIM2273	Research internship, Part 2	Anabelle Decottignies (coord.)	(EN) [q2] [] [10 Credits]

## Supplementary classes

**To access this Master, students must have a good command of certain subjects. If this is not the case, they must add supplementary classes at the beginning of their Master's programme in order to obtain the prerequisites for these studies.**

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- △ ⊕ Not offered in 2021-2022 or the following year
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- [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	<a href="#">Biochemistry and molecular biology</a>	Nathalie Delzenne (coord.)	[FR] [q1] [50h+10h] [6 Credits]
○ WFARM1213	<a href="#">Human physiology and basics of physiopathology</a>	Olivier Feron (coord.) Emmanuel Hermans Philippe Lysy	[FR] [q2] [60h] [6 Credits]
○ WMDS1230	<a href="#">Biologie cellulaire médicale et expérimentale</a>	Stefan Constantinescu (coord.) Christophe Pierreux Donatienne Tyteca	[FR] [q1] [30h+20h] [4 Credits]
○ LANGL2454	<a href="#">English for biomedical students</a>	Nicholas Gibbs Nevin Serbest (coord.)	[EN] [q2] [30h] [3 Credits]
○ WSBIM1334	<a href="#">general immunology</a>	Pierre Coulie (coord.) Isabelle Leclercq Julian Leprince Sophie Lucas Jean-Christophe Renaud Benoit Van den Eynde	[FR] [q1] [65h] [6 Credits]
○ WMD1006	<a href="#">Cytology and general histology</a>	Christophe Pierreux	[FR] [q2] [10h+40h] [5 Credits]
○ WFARM1282	<a href="#">General microbiology</a>	Thomas Michiels	[FR] [q1] [20h+15h] [3 Credits]
○ WSBIM1226	<a href="#">Molecular biology (including epigenetics) and tutorials</a>	Charles De Smet Frédéric Lemaigre Thomas Michiels (coord.)	[FR] [q1] [30h+10h] [3 Credits]
○ WSBIM1227	<a href="#">Molecular biology and integrated biochemistry</a>	Luc Bertrand	[FR] [q2] [20h+30h] [3 Credits]
○ WSBIM1320	<a href="#">Introduction to experimental approaches in cellular and molecular biology</a>	Luc Bertrand Anne des Rieux Sandrine Horman Donatienne Tyteca (coord.)	[FR] [q2] [30h] [3 Credits]
○ WMDS1237D	<a href="#">Pharmacologie générale (partim sciences dentaires)</a>	Emmanuel Hermans (coord.)	[FR] [q1] [20h] [2 Credits]
○ WSBIM1302	<a href="#">Molecular Virology</a>	Thomas Michiels	[FR] [q1] [25h] [3 Credits]
○ WSBIM1382	<a href="#">Genetics and applied biotechnology</a>	Luc Bertrand (coord.) Laure Dumoutier Géraldine Laloux Nisha Limaye	[FR] [q1] [30h] [3 Credits]
○ WSBIM1211	<a href="#">Methodolgy of cell and molecular biology</a>	Guido Bommer Jean-François Collet (coord.) Stefan Constantinescu Donatienne Tyteca	[FR] [q2] [22.5h] [3 Credits]
○ WFARM1305	<a href="#">Elements of General Pathology</a>	Mélanie Dechamps Olivier Feron (coord.)	[FR] [q2] [30h] [3 Credits]
○ WFARM1247	<a href="#">Statistical data processing</a>	Eugen Pircalabelu	[FR] [q2] [15h+15h] [3 Credits]



## The programme's courses and learning outcomes

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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.

**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](#)
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- > [Holders of a 2nd cycle University degree](#)
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- > [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
<b>UCLouvain Bachelors</b>			
<a href="#">Bachelor in Biomedicine</a>		Direct access	
<a href="#">Bachelor in Dentistry</a> <a href="#">Bachelor in Medicine</a> <a href="#">Bachelor in Pharmacy</a>		Access with additional training	<a href="#">Additional requirements for admission</a> de max 15 crédits intégrés dans le programme du master
<a href="#">Bachelor in Veterinary Medicine</a> <a href="#">Bachelor in Chemistry</a> <a href="#">Bachelor in Physics</a> <a href="#">Bachelor in Bioengineering</a>		Access based on application	<a href="#">Additional requirements for admission</a> de max 60 crédits intégrés dans le programme du master
<b>Others Bachelors of the French speaking Community of Belgium</b>			
bachelier en sciences biomédicales		Direct access	
bachelier en médecine sciences pharmaceutiques sciences dentaires		Access with additional training	<a href="#">Additional requirements for admission</a> de max 15 crédits intégrés dans le programme du master
Bachelier en médecine vétérinaire Bachelier en sciences chimiques Bachelier en sciences de l'ingénieur orientation bioingénieur Bachelier en sciences physiques		Access based on application	<a href="#">Additional requirements for admission</a> de max 60 crédits intégrés dans le programme du master
<b>Bachelors of the Dutch speaking Community of Belgium</b>			
bachelor of Science in de biomedische wetenschappen		Direct access	
bachelor of Science in de geneeskunde bachelor of Science in de farmaceutische wetenschappen bachelor of Science in de tandheelkunde		Access with additional training	<a href="#">Additional requirements for admission</a> de max 15 crédits intégrés dans le programme du master
bachelor of Science in de diergeneeskunde bachelor of Science in de chemie bachelor of Science in de bio-ingenieurswetenschappen bachelor of Science in de fysica		Access based on application	<a href="#">Additional requirements for admission</a> de max 60 crédits intégrés dans le programme du master
<b>Foreign Bachelors</b>			



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 <a href="#">le module complémentaire</a> .	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
<b>"Licenciés"</b>			
		Direct access	
<b>Masters</b>			
<a href="#">Master [120] in Biochemistry and Molecular and Cell Biology</a>		Access with additional training	
<a href="#">Master [120] in Pharmacy</a>		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

Admission on the basis of a submitted dossier may be granted either directly or on the condition of completing additional coursework of a maximum of 60 ECTS credits, or refused.

## Admission and Enrolment Procedures for general registration

## Teaching method

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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 be done in individually or in small groups etc.

The dissertation, directed by a supervisor, enables students to acquire skills in the critical analysis of the literature.

## 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".***

For the theoretical courses, there are traditional written or oral examinations.

Fifteen credits are devoted to the dissertation : this is assessed on the basis of the submission of piece of written work which must be defended before a panel of experts.

## Mobility and/or Internationalisation outlook

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Foreign students may join the 60 credit Master on the basis of prerequisite subjects approved by the programme committee.

## Possible trainings at the end of the programme

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120 credit Masters :

By the end of this year of training, graduates of the 60 credit Master in Biomedical Sciences may move on to the teaching qualification for higher secondary education.

Links with teaching qualification (l'agrégation de l'enseignement secondaire supérieur - AESS) : the only university training directly accessible to holders of the 60 credit Master is the teaching qualification for higher secondary education (30 credits).

## Contacts

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### Curriculum Management

Entity

Structure entity	SSS/FASB/SBIM
Denomination	(SBIM)
Faculty	Faculty of Pharmacy and Biomedical Sciences (FASB)
Sector	Health Sciences (SSS)
Acronym	SBIM
Postal address	Avenue Mounier 73 - bte B1.73.04 1200 Woluwe-Saint-Lambert Tel: +32 (0)2 764 73 62 - Fax: +32 (0)2 764 73 63

Other academic Supervisor(s)

- [Jean-Noël Octave](https://uclouvain.be/repertoires/jean-noel.octave) (<https://uclouvain.be/repertoires/jean-noel.octave>)

Jury

- Président du jury Master 60: [Charles De Smet](https://uclouvain.be/repertoires/charles.desmet) (<https://uclouvain.be/repertoires/charles.desmet>)
- Secrétaire du jury Master 60: [Laurent Gatto](https://uclouvain.be/repertoires/laurent.gatto) (<https://uclouvain.be/repertoires/laurent.gatto>)

Useful Contact(s)

- Conseiller aux études: [Luc Bertrand](https://uclouvain.be/repertoires/luc.bertrand) (<https://uclouvain.be/repertoires/luc.bertrand>)
- Secrétariat de l'école des sciences biomédicales: [Guillaume Arnould](https://uclouvain.be/repertoires/guillaume.arnould) (<https://uclouvain.be/repertoires/guillaume.arnould>)
- Président de la commission d'enseignement de l'école de sciences biomédicales: [Charles De Smet](https://uclouvain.be/repertoires/charles.desmet) (<https://uclouvain.be/repertoires/charles.desmet>)

