

## Cycle view of the study programme

		Bl	Or	Th	Pr	Au	Cr
<b>Compulsory courses (B1 : 33Cr, B2 : 47Cr)</b>							
LANG0130-2	<i>Introduction to scientific seminar</i> (english language) - Sabine WISLET	B1	Q1	4	16	-	2
COMU0430-2	<i>Communication techniques</i> - Michael HERFS	B1	Q1	10	20	-	2
BIOL0431-2	<i>Cellular and molecular biology of disease</i> (english language) - Alain CHARLOT, Yvette HABRAKEN, Laurent NGUYEN, Agnès NOËL	B1	Q1	20	-	-	2
GENE0431-1	<i>Complement of genomics</i> - Michel GEORGES	B1	Q1	20	-	-	2
STAT0420-1	<i>Biostatistics 2</i> - AnneFrançoise DONNEAU	B1	Q1	15	15	-	2
IMMU0523-1	<i>Advances in Immunology and Vaccinology</i> (english language) - Laurence DELACROIX, Nathalie JACOBS - [5h AUTR]	B1	Q1	15	-	[+]	2
SBIM2002-1	<i>Introduction to Oncology</i> (english language) - Yvette HABRAKEN, Agnès NOËL, Nor Eddine SOUNNI - [5h AUTR]	B1	Q1	15	-	[+]	2
SBIM2003-1	<i>Advances in Cardiovascular Biology</i> (english language) - Philippe MORIMONT - [5h AUTR]	B1	Q1	15	-	[+]	2
NEUR2043-1	<i>Advances in Neurosciences</i> (english language) - Rachele FRANZEN, Virginie NEIRINCKX, Vincent SEUTIN - [5h AUTR]	B1	Q1	15	-	[+]	2
NUTR1003-1	<i>Advances in GIT biology</i> (english language) - Véronique DELCENSERIE, Souad RAHMOUNI, Bernard TAMINIAU - [5h AUTR]	B1	Q1	15	-	[+]	2
PHAR2221-1	<i>Advances in Pharmacology and Toxicology</i> (english language) - Raphaël DENOZ, Julien HANSON - [5h AUTR]	B1	Q1	15	-	[+]	2
SBIM0437-4	<i>Regulatory framework for (bio)security and management of biological risks in research and development facilities</i> (english language) - Emmanuelle DINON, Christine GRIGNET, Olivier THELLIN, Willy ZORZI - [2h Moni. ex.]	B1	Q1	13	-	[+]	1
INFO0430-3	<i>Notions of bioinformatics</i> - Olivier PEULEN	B1	Q2	10	10	-	2
CHIM0440-2	<i>Clinical chemistry</i> - Etienne CAVALIER	B1	Q2	20	10	-	2
METO0822-1	<i>Introduction to Translational Research</i> (english language) - Stéphane BERGHMANS, François JOURET	B1	Q2	30	-	-	3
SBIM0439-1	<i>Bibliographic Research</i> (english language) - Nathalie JACOBS, Christel PEQUEUX	B1	Q2	-	-	-	3
STAT1750-1	<i>Multivariate statistical analysis</i> - AnneFrançoise DONNEAU	B2	Q1	15	10	-	2
MSTG9076-1	<i>Work placement</i> - COLLÉGIALITÉ <b>Corequisite :</b> MMEM9012-1 - Thesis	B2	Q2	-	-	-	17
MMEM9012-1	<i>Thesis</i> (english language) - COLLÉGIALITÉ <b>Prerequisite :</b> SBIM0439-1 - Bibliographic Research	B2	TA	-	-	-	28
<b>Optional courses (B1 : 27Cr, B2 : 13Cr)</b>							
Choose two courses out of the following : (B2 : 10Cr)							
SBIM2029-1	<i>Additional biological analyses</i> - François BOEMER, Sébastien BONTEMS, Philippe CALMANT, Benaïssa ELMOUALI, MariePierre HAYETTE, Cécile MEEX - [20h AUTR]	B2	Q1	40	10	[+]	5
NEUR2616-1	<i>Specific questions in Neurosciences</i> (english language) - Laurence DELACROIX, Rachele FRANZEN, Gaëtan GARRAUX, Vincent SEUTIN - [30h AUTR]	B2	Q1	18	2	[+]	5
INFO9010-1	(pas organisé en 2023-2024) <i>Medical records and hospital IT</i> - Laurent DEBRA, Philippe KOLH, Michel RAZE	B2	Q1	30	-	-	5

SBIM2017-1	<i>Oncology and Immunology</i> (english language) - Nathalie JACOBS, Barbara POLESE - [10h AUTR]	B2	Q1	40	-	[+]	5
SBIM2018-1	<i>GIT from bench to bedside</i> (english language) - Olivier DETRY, MarieAlice MEUWIS, Catherine REENAERS - [10h AUTR]	B2	Q1	40	-	[+]	5
SBIM2019-1	<i>Advanced concepts in drug therapy and development</i> (english language) - Alain CHARIOT, Pierre FRANCOITTE, Christian GRANDFILS, Géraldine PIEL - [10h AUTR]	B2	Q1	40	-	[+]	5
CHIM9314-1	<i>Mass spectrometry technologies in biomedical research and their applications in the biotech industry</i> (english language) - Marianne FILLET, Gabriel MAZZUCHELLI - [10h AUTR]	B2	Q1	30	20	[+]	5

**Choose one focus from the following : (B1 : 27Cr, B2 : 3Cr)**

**Research Focus (B1 : 27Cr, B2 : 3Cr)**

SBIM0486-2	<i>Experimental methodologies in living animals</i> - Pierre DRION	B1	Q1	25	10	-	3
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**Choose one option from the following : (B1 : 24Cr, B2 : 3Cr)**

*Notice* : Organisation of the optional subjects is conditional upon a minimum number of students being registered for the study programme. The number will be defined at the start of the year.

**A. Multidisciplinary research (B1 : 24Cr, B2 : 3Cr)**

RADL0440-2	<i>Radiobiology</i> - Chantal HUMBLET, Philippe MARTINIVE	B1	Q1	20	10	-	3
BIOC0725-2	<i>Stem cells</i> (english language) - Renaud VANDENBOSCH	B1	Q2	20	-	-	2
NUTR1004-1	<i>Advances in Nutrition and Gastrointestinal tract biology II</i> (english language) - Joëlle COLLIGNON, Jean DELWAIDE, Nathalie ESSER, Guy JERUSALEM, Edouard LOUIS, Nicolas PAQUOT, Catherine REENAERS - [10h AUTR]	B1	Q2	20	-	[+]	2
NEUR2044-1	<i>Advances in Neurosciences II</i> (english language) - Julie BAKKER, Charlotte CORNIL, AnneSimone PARENT	B1	Q2	35	-	-	5
PHAR2222-1	<i>Advances in Pharmacology and Toxicology II</i> (english language) - Corinne CHARLIER, Julien HANSON - [15h AUTR]	B1	Q2	35	-	[+]	5
SBIM2008-1	<i>Advances in Oncology</i> (english language) - Jorge ARRESE ESTRADA, Denis MOTTET, Nor Eddine SOUNNI - [15h AUTR]	B1	Q2	35	-	[+]	5
LABO0433-3	<i>Modern morphological methods in biomedical research</i> (english language) - Sandra ORMENESE	B1	Q2	12	8	-	2
IMMU0524-1	<i>Advances in Immunology and Vaccinology II</i> (english language) - Andy CHEVIGNÉ, Laurence DELACROIX, Nathalie JACOBS - [10h AUTR]	B2	Q1	20	-	[+]	3

**B. Multidisciplinary English (B1 : 24Cr, B2 : 3Cr)**

SBIM0494-2	<i>Advanced concepts in cell Biology</i> (english language) - Pierre CLOSE, Laurence DELACROIX, Mireille DUMOULIN, Keith DURKIN, Julien HANSON - [15h Pers. Res.]	B1	Q1	15	15	[+]	4
SBIM0495-2	<i>Molecular and cellular basis of disease</i> (english language) - Jo CAERS, Pierre CLOSE, Charlotte CORNIL, Laurence DELACROIX, Mireille DUMOULIN, Keith DURKIN, Carla GOMES DA SILVA, Céline KEMPENEERS, Vincent SEUTIN, Sabine WISLET - [40h Pers. Res.]	B1	Q2	20	10	[+]	6
SBIM0496-2	<i>Advanced techniques for diagnosis and prognosis</i> (english language) - Pascal DE TULLIO, Keith DURKIN, François JOURET, Céline KEMPENEERS, Sabine WISLET, Nadia WITHOFS - [40h Pers. Res.]	B1	Q2	10	10	[+]	5
SBIM0497-2	<i>New therapeutic approaches to disease</i> (english language) -	B1	Q2	10	10	[+]	5

CAERS, Pierre CLOSE, Mireille DUMOULIN,  
AnneSimone PARENT, Vincent SEUTIN - [40h Pers. Res.]

SBIM0498-2	<i>Critical evaluation of experimental data</i> (english language) - Laurence DELACROIX, Keith DURKIN, Julien HANSON - [10h Pers. Res.]	B1	Q2	10	10	[+]	4
SBIM0499-1	<i>Thematic seminars</i> (english language) - Pierre CLOSE - [20h SEM]	B2	Q1	-	-	[+]	3

#### Professional Focus in Quality Assurance (B1 : 27Cr, B2 : 3Cr)

*Notice* : Organisation of the focus is conditional upon a minimum number of students being registered for the study programme. The number will be defined at the start of the year.

QUAL0433-1	<i>Organisation and quality assurance in a trial laboratory</i> - Philippe HUBERT, Joëlle WIDART	B1	Q1	5	10	-	3
GEST0188-1	<i>Determination and recognition of quality and conformity</i> - <i>Common theory</i> - Pierre DEWALLEF - <i>practice</i> - Joëlle WIDART	B1	Q1	15	-	-	3
QUAL0438-2	<i>Good Manufacturing Practices (GMP)</i> (english language) - Eric CLAESSENS, Lucas FOTSING, Philippe HUBERT, Roland MARINI DJANG'EING'A - Suppl : Roland MARINI DJANG'EING'A	B1	Q2	10	10	-	1
QUAL0430-3	<i>Quality assurance systems in clinical biology</i> - Etienne CAVALIER	B1	Q2	10	3	-	2
QUAL0436-5	<i>Quality assurance linked to foodstuffs</i> - <i>Partim I : aspects chimiques</i> - MarieLouise SCIPPO - <i>Partim II : aspects biologiques</i> - Georges DAUBE	B1	Q2	7	-	-	2
QUAL0435-2	<i>Microbiological quality assurance of the environment</i> - Sébastien BONTEMS	B1	Q2	10	15	-	3
ESHY0057-2	<i>General safety organization</i> - Emmanuelle DINON, Christine GRIGNET	B1	Q2	14	-	-	2
QUAL0439-2	<i>Chemical quality assurance of the environment</i> - Gauthier EPPE	B1	Q2	18	-	-	3
QUAL0434-2	<i>Validation of quantitative analysis methods</i> - Roland MARINI DJANG'EING'A	B1	Q2	10	5	-	2
QUAL0725-1	<i>Managing data integrity</i> - Cédric HUBERT	B1	Q2	5	5	-	1
QUAL0432-2	<i>Quality Assurance for IT systems</i> - Marc DENHAM	B1	Q2	5	-	-	1
INFO9007-1	<i>Advanced Programming</i> (english language) - AnneFrançoise DONNEAU	B1	Q2	10	20	-	4
QUAL0431-1	<i>Internal and external audits</i> - Yannick LABEYE	B2	Q1	10	20	-	3

#### Professional focus in clinical research management (B1 : 23Cr, B2 : 7Cr)

*Notice* : This focus is created jointly with UNamur, which, as the lead university, is responsible for its management. Therefore, students are registered and follow the core curriculum at UNamur.

SBIM2010-1	<i>Intellectual Property and Patent</i> (english language) - Fabienne PIRON	B1	Q1	20	-	-	2
SBIM2004-1	<i>Medical Psychology</i> (english language) - Sara BAKAY	B1	Q2	5	10	-	2
SBIM2005-1	<i>Regulatory framework for (bio)safety and biorisk management in clinical research</i> (english language) - Emmanuelle DINON, Christine GRIGNET, Olivier THELLIN, Willy ZORZI - [2h Moni. ex.]	B1	Q1	13	-	[+]	1
SBIM2006-1	<i>Pathophysiology</i> (english language) - François JOURET, Hernan VALDESOCIN, Laurent WEEKERS	B1	Q1	30	-	-	3
SBIM2007-1	<i>Clinical trials of Medical Devices</i> (english language) -	B1	Q1	20	10	-	3

#### ORIMONT

INFO9005-1	<i>Bioinformatic Skills</i> (english language) - Christophe POULET	B1	Q1	10	20	-	2
SBIM2009-1	<i>Patient and Researcher Interplay</i> (english language) - Régis RADERMECKER	B1	Q2	20	-	-	3
SBIM2011-1	<i>Writing and Reading skills</i> (english language) - Sabine WISLET	B1	Q2	15	30	-	3
SBIM2012-1	<i>Biomarkers and surrogate markers in clinical research</i> (english language) - Dominique DE SENY	B1	Q2	25	10	-	3
SBIM2013-1	<i>Evidence Based Medicine</i> (english language) - Régis RADERMECKER	B1	Q2	10	-	-	1
HULG9520-1	<i>Clinical Study Management</i> (english language) - Marc ANDRÉ, Yves GEYSELS	B2	Q1	20	-	-	3
HULG9512-1	<i>Clinical Research Associate Training</i> (english language) - Jonathan DOUXFILS	B2	Q1	15	-	-	2
HULG9513-1	<i>Clinical Project Management</i> (english language) - Laure DELBECQUE	B2	Q1	12	-	-	2

#### Professional focus in biomedical data management (B1 : 27Cr, B2 : 3Cr)

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HULG9514-1	<i>Introduction to programming</i> (english language) - François DEGRAVE, Wim VANTHOF	B1	Q1	30	30	-	6
HULG9508-1	<i>Operating System</i> (english language) - Seweryn DYNEROWICZ, JeanMarie JACQUET	B1	Q2	15	15	-	3
HULG9509-1	<i>Algorithmics</i> (english language) - JeanMarie JACQUET - [30h AUTR]	B1	Q2	30	30	[+]	8
HULG9510-1	<i>Data Analyses</i> (english language) - Adrien BIDAL, Benoît FRÉNAY	B1	Q2	30	15	-	4
INFO9007-1	<i>Advanced Programming</i> (english language) - AnneFrançoise DONNEAU	B1	Q2	10	20	-	3
SBIM2016-1	<i>Data Management Process within the clinical and the reporting Process</i> (english language) - Christophe POULET	B1	Q2	20	10	-	3
SBIM2027-1	<i>Medical record</i> - Philippe KOLH	B2	Q1	10	-	-	1
SBIM2028-1	<i>Clinical Data Management and Biobank</i> (english language) - Stéphanie GOFFLOT, Jessica JACQUES	B2	Q1	5	10	-	2

### Additional ECTS Master in biology (120 ECTS)

#### Compulsory courses (B0 : 60Cr)

PHAC1001-2	<i>General pharmacology</i> - Theory - Vincent SEUTIN - Pharmacology seminars for biomedicine - Vincent SEUTIN - [4h SEM]	B0	Q1	20	-	-	3
IMMU0001-2	<i>General immunology, Theory</i> - Catherine SADZOT	B0	Q1	15	-	-	2
BIOC0006-1	<i>Principles of normal and pathological cellular regulation</i> - Agnès NOËL	B0	Q1	20	-	-	2
NEUR2615-1	<i>Introduction to neurosciences</i> - Laurence DELACROIX, Rachelle FRANZEN, Gaëtan GARRAUX, Vincent SEUTIN	B0	Q1	40	-	-	4

LABO0001-2	<i>Teaching laboratory</i> - <i>Theory</i> - Laurence DELACROIX, Rachelle FRANZEN, Carine MUNAUT, Agnès NOËL, Christel PEQUEUX, Nor Eddine SOUNNI, Sabine WISLET - <i>Specific practical work</i> - Laurence DELACROIX, Rachelle FRANZEN, Carine MUNAUT, Agnès NOËL, Christel PEQUEUX, Nor Eddine SOUNNI, Sabine WISLET	B0	Q1	10	-	-			<b>4</b>
LANG5001-1	<i>Advanced English for Biomedical Science (english language)</i> - Sébastien SCHOENMAECKERS, Andrea TUDINO - [10h AUTR]	B0	Q1	-	30	[+]			<b>2</b>
STAT1001-1	<i>Biostatistics I</i> - AnneFrançoise DONNEAU - [15h QA Sess.]	B0	Q1	15	-	[+]			<b>2</b>
BIOC0010-1	<i>Human, normal and pathological biochemistry and physiology (COPIE)</i> - <i>Cardiovascular system</i> - Philippe KOLH - <i>Respiratory system</i> - Didier CATALDO - <i>Nervous system</i> - Gaëtan GARRAUX - <i>Nervous system - specific concepts</i> - Gilles VANDEWALLE - [2h Pr.]	B0	Q1	10	-	-			<b>5</b>
BIOC0010-2	<i>Human, normal and pathological biochemistry and physiology (COPIE)</i> - <i>Endocrine system and metabolism</i> - Philippe KOLH - <i>Digestive system</i> - Didier CATALDO - <i>Nephro-urinary system</i> - Didier CATALDO	B0	Q1	15	-	-			<b>4</b>
IMMU0522-1	<i>Immunopathology</i> - Christophe DESMET, Michel MOUTSCHEN - [7h SI]	B0	Q2	10	-	[+]			<b>2</b>
BIOC0322-2	<i>Proteins biochemistry</i> - Sabine WISLET - [8h SEM]	B0	Q2	16	-	[+]			<b>3</b>
CHIM0217-3	<i>Principles of clinical chemistry</i> - Etienne CAVALIER	B0	Q2	20	-	-			<b>2</b>
INFO9018-1	<i>Programming principles, Partim 1 - Algorithmique &amp; Programmation</i> - Christophe POULET	B0	Q2	25	15	-			<b>4</b>
LANG5002-1	<i>Advanced English for Biomedical Science 2 (english language)</i> - Pascal MAQUINAY, Sébastien SCHOENMAECKERS - [10h AUTR]	B0	Q2	-	30	[+]			<b>2</b>
GENE0121-2	<i>Special medical genetics</i> - Vincent BOURS - Suppl : FrançoisGuillaume DEBRAY	B0	Q2	14	-	-			<b>2</b>
ANAP0120-4	<i>General pathological anatomy</i> - <i>Theory</i> - Philippe DELVENNE - <i>Practical work for biomedicine</i> - Philippe DELVENNE	B0	Q2	20	-	-			<b>3</b>
HISL0220-3	<i>Human histology</i> - Chantal HUMBLET	B0	Q2	20	10	-			<b>5</b>
BIOL0028-1	<i>Molecular biology</i> - Agnès NOËL	B0	TA	55	40	-			<b>9</b>