

## Block view of the study programme

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### Block 1

#### Compulsory courses

LANG0130-2	<i>Scientific English Practice</i> - Sabine WISLET	Q1	4	16	-	2
COMU0430-2	<i>Communication techniques</i> - Michael HERFS	Q1	10	20	-	2
BIOL0431-2	<i>Cellular and molecular biology of disease</i> (english language) - Alain CHARLOT, Yvette HABRAKEN, Laurent NGUYEN, Agnès NOËL	Q1	20	-	-	2
GENE0431-1	<i>Complement of genomics</i> - Michel GEORGES	Q1	20	-	-	2
STAT0420-1	<i>Biostatistics 2</i> - AnneFrançoise DONNEAU	Q1	15	15	-	2
IMMU0523-1	<i>Advances in Immunology and Vaccinology</i> (english language) - Laurence DELACROIX, Nathalie JACOBS - [5h AUTR]	Q1	15	-	[+]	2
SBIM2002-1	<i>Introduction to Oncology</i> (english language) - Yvette HABRAKEN, Agnès NOËL, Nor Eddine SOUNNI - [5h AUTR]	Q1	15	-	[+]	2
SBIM2003-1	<i>Advances in Cardiovascular Biology</i> (english language) - Philippe MORIMONT - [5h AUTR]	Q1	15	-	[+]	2
NEUR2043-1	<i>Advances in Neurosciences</i> (english language) - Rachele FRANZEN, Virginie NEIRINCKX, Vincent SEUTIN - [5h AUTR]	Q1	15	-	[+]	2
NUTR1003-1	<i>Advances in GIT biology</i> (english language) - Véronique DELCENSERIE, Souad RAHMOUNI, Bernard TAMINIAU - [5h AUTR]	Q1	15	-	[+]	2
PHAR2221-1	<i>Advances in Pharmacology and Toxicology</i> (english language) - Raphaël DENOZ, Julien HANSON - [5h AUTR]	Q1	15	-	[+]	2
SBIM0437-4	<i>Regulatory framework for (bio)safety and biorisk management in research and development facilities</i> (english language) - Emmanuelle DINON, Christine GRIGNET, Olivier THELLIN, Willy ZORZI - [2h Moni. ex.]	Q1	13	-	[+]	1
INFO0430-3	<i>Notions of bioinformatics</i> - Olivier PEULEN	Q2	10	10	-	2
CHIM0440-2	<i>Clinical chemistry</i> - Etienne CAVALIER	Q2	20	10	-	2
METO0822-1	<i>Introduction to Translational Research</i> (english language) - Stéphane BERGHMANS, François JOURET	Q2	30	-	-	3
SBIM0439-1	<i>Bibliographic Research</i> (english language) - Nathalie JACOBS, Christel PEQUEUX	Q2	-	-	-	3

#### Optional courses

Choose one focus from the following :

##### Research Focus

SBIM0486-2	<i>Experimental methodologies in living animals</i> - Pierre DRION	Q1	25	10	-	3
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Choose one option from the following :

*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

RADL0440-2	<i>Radiobiology</i> - Chantal HUMBLET, Philippe MARTINIVE	Q1	20	10	-	3
BIOC0725-2	<i>Stem cells</i> (english language) - Renaud VANDENBOSCH	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]	Q2	20	-	[+]	2
NEUR2044-1	<i>Advances in Neurosciences II</i> (english language) - Julie BAKKER,	Q2	35	-	-	5

Charlotte CORNIL, AnneSimone PARENT

PHAR2222-1	<i>Advances in Pharmacology and Toxicology II</i> (english language) - Corinne CHARLIER, Julien HANSON - [15h AUTR]	Q2	35	-	[+]	5
SBIM2008-1	<i>Advances in Oncology</i> (english language) - Jorge ARRESE ESTRADA, Denis MOTTET, Nor Eddine SOUNNI - [15h AUTR]	Q2	35	-	[+]	5
LABO0433-3	<i>Advances in Morphological Methodology</i> (english language) - Sandra ORMENESE	Q2	12	8	-	2

#### B. Multidisciplinary English

SBIM0494-2	<i>Advanced concepts in cell Biology</i> (english language) - Pierre CLOSE, Laurence DELACROIX, Mireille DUMOULIN, Keith DURKIN, Julien HANSON - [15h Pers. Res.]	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.]	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.]	Q2	10	10	[+]	5
SBIM0497-2	<i>New therapeutic approaches to disease</i> (english language) - Jo CAERS, Pierre CLOSE, Mireille DUMOULIN, AnneSimone PARENT, Vincent SEUTIN - [40h Pers. Res.]	Q2	10	10	[+]	5
SBIM0498-2	<i>Critical evaluation of experimental data</i> (english language) - Laurence DELACROIX, Keith DURKIN, Julien HANSON - [10h Pers. Res.]	Q2	10	10	[+]	4

#### Professional Focus in Quality Assurance

*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	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	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	Q2	10	10	-	1
QUAL0430-3	<i>Quality assurance systems in clinical biology</i> - Etienne CAVALIER	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	Q2	7	-	-	2
QUAL0435-2	<i>Microbiological quality assurance of the environment</i> - Sébastien BONTEMS	Q2	10	15	-	3
ESHY0057-2	<i>General safety organization</i> - Emmanuelle DINON, Christine GRIGNET	Q2	14	-	-	2
QUAL0439-2	<i>Chemical quality assurance of the environment</i> - Gauthier EPPE	Q2	18	-	-	3
QUAL0434-2	<i>Validation of quantitative analysis methods</i> - Philippe HUBERT, Roland MARINI DJANG'EING'A - Suppl : Eric ZIEMONS	Q2	10	5	-	2
QUAL0725-1	<i>Managing data integrity</i> - Cédric HUBERT	Q2	5	5	-	1
QUAL0432-2	<i>Quality Assurance for IT systems</i> - Marc DENHAM	Q2	5	-	-	1

INFO9007-1 *Advanced Programming* (english language) - AnneFrançoise DONNEAU Q2 10 20 - 4

#### Finalité spécialisée en gestion de la recherche clinique

*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) - Evelyne GRIDELET	Q1	20	-	-	2
SBIM2004-1	<i>Medical Psychology</i> (english language) - Sara BAKAY	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.]	Q1	13	-	[+]	1
SBIM2006-1	<i>Pathophysiology</i> (english language) - François JOURET, Hernan VALDESSOCIN	Q1	30	-	-	3
SBIM2007-1	<i>Clinical trials of Medical Devices</i> (english language) - Philippe MORIMONT	Q1	20	10	-	3
INFO9005-1	<i>Bioinformatic Skills</i> (english language) - Christophe POULET	Q1	10	20	-	2
SBIM2009-1	<i>Patient and Researcher Interplay</i> (english language)	Q2	20	-	-	3
SBIM2011-1	<i>Writing and Reading skills</i> (english language) - Sabine WISLET	Q2	15	30	-	3
SBIM2012-1	<i>Biomarkers and surrogate markers in clinical research</i> (english language) - Dominique DE SENY	Q2	25	10	-	3
SBIM2013-1	<i>Evidence Based Medicine</i> (english language) - Régis RADERMECKER	Q2	10	-	-	1

#### Professional focus in biomedical data management

*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. This focus is created jointly with UNamur. ULiège, as the main university, is responsible for managing this focus. Therefore, students are registered and follow the core curriculum at ULiège.

HULG9514-1	<i>Introduction to programming</i> (english language) - François DEGRAVE, Wim VANTHOF	Q1	30	30	-	6
HULG9508-1	<i>Operating System</i> (english language) - Seweryn DYNTEROWICZ, JeanMarie JACQUET	Q2	15	15	-	3
HULG9509-1	<i>Algorithmics</i> (english language) - JeanMarie JACQUET - [30h AUTR]	Q2	30	30	[+]	8
HULG9510-1	<i>Data Analyses</i> (english language) - Adrien BIDAL, Benoît FRÉNAY	Q2	30	15	-	4
INFO9007-1	<i>Advanced Programming</i> (english language) - AnneFrançoise DONNEAU	Q2	10	20	-	3
SBIM2016-1	<i>Data Management Process within the clinical and the reporting Process</i> (english language) - Christophe POULET	Q2	20	10	-	3

#### Block 2

##### Compulsory courses

STAT1750-1	<i>Multivariate statistical analysis</i> - AnneFrançoise DONNEAU	Q1	15	10	-	2
MSTG9076-1	<i>Work placement</i> - COLLÉGIALITÉ	Q2	-	-	-	17
	<b>Corequisite :</b> MMEM9012-1 - Thesis					
MMEM9012-1	<i>Thesis</i> (english language) - COLLÉGIALITÉ	TA	-	-	-	28
	<b>Prerequisite :</b> SBIM0439-1 - Bibliographic Research					

##### Optional courses

Choose two courses out of the following :

SBIM2029-1	<i>Additional biological analyses</i> - François BOEMER, Sébastien BONTEMS,	Q1	40	10	[+]	5
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Philippe CALMANT, Benaïssa ELMOUALIJ, MariePierre HAYETTE,  
Cécile MEEUX - [20h AUTR]

NEUR2616-1	<i>Specific questions in Neurosciences</i> (english language) - Laurence DELACROIX, Rachelle FRANZEN, Gaëtan GARRAUX, Vincent SEUTIN - [30h AUTR]	Q1	18	2	[+]	5
INFO9010-1	<i>Medical records and hospital IT</i> - Laurent DEBRA, Philippe KOLH, Michel RAZE	Q1	30	-	-	5
SBIM2017-1	<i>Oncology and Immunology</i> (english language) - Nathalie JACOBS, Barbara POLESE - [10h AUTR]	Q1	40	-	[+]	5
NEUR2045-1	(pas organisé en 2022-2023) <i>Pre-clinical Neurosciences</i> (english language) - Lucien BETTENDORFF, Laurence DELACROIX, Dominique ENGEL, Rachelle FRANZEN, Vincent SEUTIN - [5h AUTR]	Q1	40	-	[+]	5
SBIM2019-1	<i>Advanced concepts in drug therapy and development</i> (english language) - Alain CHARLOT, Pierre FRANCOTTE, Christian GRANDFILS, Géraldine PIEL - [10h AUTR]	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]	Q1	30	20	[+]	5
SBIM2018-1	<i>GIT from bench to bedside</i> (english language) - Olivier DETRY, MarieAlice MEUWIS, Catherine REENAERS - [10h AUTR]	Q1	40	-	[+]	5

**Choose one focus from the following :**

#### Research Focus

**Choose one option from the following :**

##### A. Multidisciplinary research

IMMU0524-1	<i>Advances in Immunology and Vaccinology II</i> (english language) - Andy CHEVIGNÉ, Laurence DELACROIX, Nathalie JACOBS - [10h AUTR]	Q1	20	-	[+]	3
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##### B. Multidisciplinary English

SBIM0499-1	<i>Thematic seminars</i> (english language) - Pierre CLOSE - [20h SEM]	Q1	-	-	[+]	3
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#### Professional Focus in Quality Assurance

QUAL0431-1	<i>Internal and external audits</i> - Ahmed IGOUT	Q1	10	20	-	3
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#### Finalité spécialisée en gestion de la recherche clinique

HULG9520-1	<i>Clinical Study Management</i> (english language) - Marc ANDRÉ, Yves GEYSELS	Q1	20	-	-	3
HULG9512-1	<i>Clinical Research Associate Training</i> (english language) - Jonathan DOUXFILS	Q1	15	-	-	2
HULG9513-1	<i>Clinical Project Management</i> (english language) - Laure DELBECQUE	Q1	12	-	-	2

#### Professional focus in biomedical data management

SBIM2027-1	<i>Medical record</i> - Philippe KOLH	Q1	10	-	-	1
SBIM2028-1	<i>Clinical Data Management and Biobank</i> (english language) - Stéphanie GOFFLOT, Jessica JACQUES	Q1	5	10	-	2

**Bloc d'aménagement du programme de l'année**

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

#### Compulsory courses

PHAC1001-2	<i>General pharmacology</i> - Theory - Vincent SEUTIN - Pharmacology seminars for biomedicine - Vincent SEUTIN - [4h SEM]	Q1	20	-	-	[+]	<b>3</b>
IMMU0001-2	<i>General immunology, Theory</i> - Catherine SADZOT	Q1	15	-	-		<b>2</b>
BIOC0006-1	<i>Principles of normal and pathological cellular regulation</i> - Agnès NOËL	Q1	20	-	-		<b>2</b>
NEUR2615-1	<i>Introduction to neurosciences</i> - Rachele FRANZEN, Gaëtan GARRAUX, Arnaud LOMBARD, Vincent SEUTIN	Q1	40	-	-		<b>4</b>
LABO0001-2	<i>Teaching laboratory</i> - Theory - Laurence DELACROIX, Rachele FRANZEN, Carine MUNAUT, Agnès NOËL, Christel PEQUEUX, Nor Eddine SOUNNI, Sabine WISLET - Specific practical work - Laurence DELACROIX, Rachele FRANZEN, Carine MUNAUT, Agnès NOËL, Christel PEQUEUX, Nor Eddine SOUNNI, Sabine WISLET	Q1	10	-	-	50	<b>4</b>
LANG5001-1	<i>Advanced English for Biomedical Science (english language)</i> - Jérôme GAILLARD, Andrea TUDINO - [10h AUTR]	Q1	-	30		[+]	<b>2</b>
STAT1001-1	<i>Biostatistics I</i> - AnneFrançoise DONNEAU - [15h QA Sess.]	Q1	15	-		[+]	<b>2</b>
BIOC0010-1	<i>Human, normal and pathological biochemistry and physiology (COPIE)</i> - Cardiovascular system - Philippe KOLH - Respiratory system - Didier CATALDO - Nervous system - Gaëtan GARRAUX - Nervous system - specific concepts - Gilles VANDEWALLE - [2h Pr.]	Q1	10	-	-		<b>5</b>
BIOC0010-2	<i>Human, normal and pathological biochemistry and physiology (COPIE)</i> - Endocrine system and metabolism - Philippe KOLH - Digestive system - Didier CATALDO - Nephro-urinary system - Didier CATALDO	Q1	15	-	-		<b>4</b>
IMMU0522-1	<i>Immunopathology</i> - Christophe DESMET, Michel MOUTSCHEN - [7h SI]	Q2	10	-		[+]	<b>2</b>
BIOC0322-2	<i>Proteins biochemistry</i> - Sabine WISLET - [8h SEM]	Q2	16	-		[+]	<b>3</b>
CHIM0217-3	<i>Principles of clinical chemistry</i> - Etienne CAVALIER	Q2	20	-	-		<b>2</b>
INFO9018-1	<i>Programming principles, Part 1: algorithmics and programming</i> - Christophe POULET	Q2	25	15	-		<b>4</b>
LANG5002-1	<i>Advanced English for Biomedical Science 2 (english language)</i> - Pascal MAQUINAY, Sébastien SCHOENMAECKERS - [10h AUTR]	Q2	-	30		[+]	<b>2</b>
GENE0121-2	<i>Special medical genetics</i> - Vincent BOURS - Suppl : FrançoisGuillaume DEBRAY	Q2	14	-	-		<b>2</b>
ANAP0120-4	<i>General pathological anatomy</i> - Theory - Philippe DELVENNE - Practical work for biomedicine - Philippe DELVENNE	Q2	20	-	-	6	<b>3</b>
HISL0220-3	<i>Human histology</i> - Chantal HUMBLET	Q2	20	10	-		<b>5</b>
BIOL0028-1	<i>Molecular biology</i> - Agnès NOËL, MarieJulie NOKIN	TA	55	40	-		<b>9</b>