

## Block view of the study programme

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### Block 1

#### Programme selection

In agreement with the Jury, choose one of the two programmes according to the student's background:

#### Reformed programme

Only accessible to students starting their Masters programme in 2023-2024 or who have just gained the credits from Block 0.

BIOC0726-1	<i>Toolbox: nucleic acid analysis techniques</i> - Denis BAURAIN, Franck DEQUIEDT, Marc HANIKENNE, Patrick MEYER - [4h AUTR]	Q1	24	12	[+]	3
BIOC0727-1	<i>Toolbox: imaging and experimental models</i> - Frédéric BOUCHÉ, Grégory FETTWEIS, Patrick MOTTE, N..., Sandra ORMENESE, Loïc QUINTON, Damien SLUYSMANS, Nicolas THELEN, Marc THIRY, Pierre TOCQUIN, Marianne VOZ - [14h AUTR]	Q1	22	4	[+]	3
BIOC0728-1	<i>Toolbox: protein analysis techniques</i> - Christian DAMBLON, Franck DEQUIEDT, Mireille DUMOULIN, André MATAGNE, N..., Damien SLUYSMANS, Marylène VANDEVENNE - [20h AUTR]	Q1	20	-	[+]	3
BIOC0729-1	<i>Adaptation, evolution and diversity</i> - Denis BAURAIN, Franck DEQUIEDT, Tom DRUET, Moreno GALLEN, Marc HANIKENNE, Alice MOUTON, N..., Claire REMACLE, Catherine SADZOT, Annick WILMOTTE - [30h AUTR]	Q1	40	6	[+]	5
BIOC0730-1	<i>Development, from the cell to the organism</i> - Lydie FLASSE, Patrick MOTTE, Bernard PEERS, Claire PÉRILLEUX, Sébastien RIGALI, Ingrid STRUMAN, Mohammed TERRAK, Marc THIRY, Pierre TOCQUIN - [16h AUTR]	Q1	68	18	[+]	7
BIOC0731-1	<i>Responses to the environment</i> - Frédéric BOUCHÉ, Franck DEQUIEDT, Marc HANIKENNE, N..., Claire PÉRILLEUX, Sébastien RIGALI - [20h AUTR]	Q1	40	20	[+]	5
BIOC0732-1	<i>Interaction between organisms</i> - Denis BAURAIN, François BEAUFAY, Pierre CARDOL, Marielle LEBRUN, Nicolas MAGAIN, Sébastien MASSART, N..., Sébastien RIGALI, Catherine SADZOT - [16h AUTR]	Q1	36	16	[+]	5
BIOC0733-1	<i>Toolbox: structural biology</i> - Christian DAMBLON, Frédéric KERFF, Loïc QUINTON, Arnaud VANDEN BROECK - [5h AUTR]	Q2	20	15	[+]	3
BIOC0734-1	<i>Metabolism</i> - Pierre CARDOL, Christian DAMBLON, Stéphanie HERKENNE, Frédéric KERFF, Sylvie LEGRAND, Patrick MEYER, N..., Loïc QUINTON, Claire REMACLE - [30h AUTR]	Q2	40	10	[+]	5
BIOC0735-1	<i>Biotechnologies</i> - Alain BRANS, Patrick FICKERS, Moreno GALLEN, Sylvie LEGRAND, André MATAGNE, N..., Claire REMACLE, Mohammed TERRAK, Pierre TOCQUIN, Marylène VANDEVENNE - [15h AUTR]	Q2	54	45	[+]	7
BIOC0736-1	<i>Biomedical strategies</i> - François BEAUFAY, Franck DEQUIEDT, Emmanuel DI VALENTIN, Mireille DUMOULIN, Moreno GALLEN, Frédéric KERFF, André MATAGNE, Sébastien RIGALI, Catherine SADZOT, Ingrid STRUMAN, Mohammed TERRAK, Marylène VANDEVENNE - [24h AUTR]	Q2	36	8	[+]	5
SSTG0065-1	<i>Laboratory internship</i> - Denis BAURAIN, François BEAUFAY, Alain BRANS, Pierre CARDOL, Franck DEQUIEDT, Emmanuel DI VALENTIN, Mireille DUMOULIN, Grégory FETTWEIS, Moreno GALLEN, Marc HANIKENNE, Stéphanie HERKENNE, Frédéric KERFF, Marielle LEBRUN, Sylvie LEGRAND, André MATAGNE, Patrick MEYER, Johan MICHAUX, Patrick MOTTE, N..., Bernard PEERS, Claire PÉRILLEUX, Claire REMACLE, Sébastien RIGALI, Catherine SADZOT, Ingrid STRUMAN, Mohammed TERRAK, Nicolas THELEN, Marc THIRY, Pierre TOCQUIN, Marylène VANDEVENNE, Marianne VOZ,	TA	-	-	[+]	9

ILMOTTE - [6w Internship]

**Old programme**

Only open to students enrolled for the master's programme before the 2023-2024 academic year.

BIOC0709-4	<i>Bioenergetics</i> - Pierre CARDOL	Q1	20	-	-	3
BIOC0210-5	<i>Enzymology</i> - André MATAGNE - [10h Mon. WS]	Q1	20	-	[+]	3
BIOC0720-1	<i>Structural biology</i> - Christian DAMBLON, Frédéric KERFF - [15h Mon. WS]	Q1	25	-	[+]	4
BIOC0721-1	<i>Optical spectroscopy for biochemistry</i> - Christian DAMBLON, André MATAGNE	Q1	15	-	-	2
GENE0001-4	<i>Genetic engineering</i> - Frédéric BOUCHÉ, Alain BRANS, Franck DEQUIEDT, Mireille DUMOULIN, Sylvie LEGRAND, Isabelle MANFROID, N..., Hélène PENDEVILLESAMAIN, Mohammed TERRAK, Marianne VOZ	Q1	20	-	-	3
GENE0432-4	<i>Genetic and biochemical evolution</i> - Moreno GALLEN, Claire REMACLE	Q1	30	-	-	3
GENE0003-1	<i>Genomics</i> - Marc HANIKENNE	Q2	20	-	-	3
BIOL0008-1	<i>Bioinformatics</i> - Denis BAURAIN - [5h Mon. WS]	Q1	20	-	[+]	3
BIOL0021-1	<i>Biology of the systems</i> - Patrick MEYER - [10h Mon. WS]	Q1	10	-	[+]	2
SSTG0009-1	<i>Placement or practical integrated work (including seminars)</i> - Denis BAURAIN, Franck DEQUIEDT, Moreno GALLEN, Marc HANIKENNE, André MATAGNE, Patrick MEYER, Johan MICHAUX, Patrick MOTTE, N..., Claire PÉRILLEUX, Claire REMACLE, Catherine SADZOT, Marc THIRY - [8w Internship]	TA	-	-	[+]	12

**In agreement with the Jury, choose an option among :**

**Biochemistry**

*Notice* : Only accessible to students who have chosen this subject before the academic year 2019-2020.

**Genetics**

*Notice* : Only accessible to students who have chosen this subject before the academic year 2019-2020.

**Physiology and developmental biology**

*Notice* : Only accessible to students who have chosen this subject before the academic year 2019-2020.

**Microbiology and Immunology**

*Notice* : Only accessible to students who have chosen this subject before the academic year 2019-2020.

**Biochemistry and microbiology**

BIOC0723-1	<i>Applied bioenergetics</i> - Pierre CARDOL	Q2	15	-	-	2
BIOC0722-1	<i>Application of spectroscopic techniques to the study of folding and stability of proteins</i> - André MATAGNE - [10h Mon. WS]	Q2	20	-	[+]	3
CHIM0688-1	<i>Biological mass spectrometry</i> - Loïc QUINTON - [5h Mon. WS]	Q2	15	-	[+]	2
BIOC0003-2	<i>Biochemistry and physiology of the micro-organisms</i> - JeanDenis DOCQUIER	Q2	15	-	-	2
BIOL0013-1	<i>Development of microorganisms</i> - Sébastien RIGALI - [5h Mon. WS]	Q2	15	-	[+]	2
MICR1713-1	<i>Extremophile microorganisms</i> - [5h Mon. WS]	Q2	10	-	[+]	2
MICR0004-1	<i>Bacterial pathogenesis</i> - N...	Q2	15	-	-	2

MICR0005-1	<i>Prostistology</i> - Denis BAURAIN	Q2	15	-	-	-	2
MICR0006-1	<i>Virology, immunology and vaccinology</i> - Catherine SADZOT	Q2	25	-	-	-	3
CHIM0059-6	<i>Industrial Microbiology</i>	Q2	20	-	-	-	2

**Genetics, physiology and developmental biology**

GENE0445-1	<i>Quantitative genetics</i> - Franck DEQUIEDT - [15h Mon. WS]	Q2	15	-	-	[+]	3
GENE0441-2	<i>Organelle genetics, Part A</i> - Claire REMACLE	Q2	15	-	-	-	2
BIOL0009-1	<i>Molecular and cellular physiology and animal signaling pathways</i> - N..., Ingrid STRUMAN, Marc THIRY	Q2	25	-	-	-	3
BIOL0010-1	<i>Molecular and cellular physiology and plant signaling pathways</i> - Patrick MOTTE	Q2	20	-	-	-	3
BIOL0011-1	<i>Biology of animal development</i> - Bernard PEERS	Q2	25	-	-	-	3
BIOL0012-1	<i>Biology of plant development</i> - Claire PÉRILLEUX	Q2	25	-	-	-	3
BIOL0032-1	<i>Evolutionary developmental biology</i> - Bernard PEERS, Claire PÉRILLEUX	Q2	15	-	-	-	2
BIOL0014-1	<i>Dynamic molecular imaging</i> - Patrick MOTTE	Q2	20	-	-	-	3

**Optional free courses**

AESS0320-1	<i>Initiation to biology didactics</i> - MarieNoëlle HINDRYCKX	Q2	20	20	-	-	3
SBIM0486-2	<i>Methodology of animal experimentation (english language)</i> - Pierre DRION	Q1	25	10	-	-	3

**Block 2**

**Focus compulsory courses**

BBMC0020-1	<i>Final thesis (complement)</i> - COLLÉGIALITÉ, Claire PÉRILLEUX	TA	-	-	-	-	10
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**Focus optional courses**

In agreement with the Jury, choose a placement from among:

SSTG0044-1	<i>Research internship within an university outside ULiege or a company of the Wallonia-Brussels Federation</i> - COLLÉGIALITÉ - [3mois Internship]	Q1	-	-	-	[+]	20
SSTG0045-1	<i>Research internship within the framework of an exchange scheme</i> - COLLÉGIALITÉ - [3mois Internship]	Q1	-	-	-	[+]	20

**Poursuite du choix du programme**

**En accord avec le Jury, poursuivre le programme choisi en fonction du parcours de l'étudiant :**

**Reformed programme**

SMEM0019-1	<i>Final thesis</i> - COLLÉGIALITÉ, Claire PÉRILLEUX	TA	-	-	-	-	25
BIOL0033-1	<i>From the laboratory to the private sector</i> - Jérémie FAYS, Philippe HUBERT, Fabienne PIRON, Catherine SADZOT, Benoît VAN DRIESSCHE, Joëlle WIDART - [20h AUTR]	Q1	20	-	-	[+]	3
BIOL0034-1	<i>Scientific writing</i> - Marjorie BARDIAU, Frédéric BOUCHÉ, Pierre CARDOL, Pierre TOCQUIN - [20h AUTR]	Q1	16	-	-	[+]	2

**Old programme**

SMEM0019-1	<i>Final thesis</i> - COLLÉGIALITÉ, Claire PÉRILLEUX	TA	-	-	-	-	25
BIOL0033-1	<i>From the laboratory to the private sector</i> - Jérémie FAYS, Philippe HUBERT, Fabienne PIRON, Catherine SADZOT, Benoît VAN DRIESSCHE, Joëlle WIDART - [20h AUTR]	Q1	20	-	-	[+]	3
BIOL0034-1	<i>Scientific writing</i> - Marjorie BARDIAU, Frédéric BOUCHÉ, Pierre CARDOL, Pierre TOCQUIN - [20h AUTR]	Q1	16	-	-	[+]	2

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

**Bridging courses Master in biochemistry and molecular and cell biology**

**Compulsory courses**

STAT0750-1	<i>Multivariate statistical analysis (software R)</i> - Arnout VAN MESSEM	Q2	10	10	-	<b>3</b>
STAT0077-1	<i>Computing analysis and processing of biological data</i> - Patrick MEYER	Q1	25	-	-	<b>2</b>
MICR0720-1	<i>Phycology and mycology</i> - Denis BAURAIN	Q1	20	10	-	<b>3</b>
MICR0721-1	<i>Bacteriology</i> - François BEAUFAY, N...	Q1	20	10	-	<b>3</b>
MICR1716-1	<i>Virology</i> - Catherine SADZOT	Q2	20	-	-	<b>2</b>
BIOL0216-1	<i>Animal physiology</i> - JeanChristophe PLUMIER, Marc THIRY	Q1	60	30	-	<b>7</b>
BIOL0217-1	<i>Vegetal physiology</i> - <i>Theory</i> - Claire PÉRILLEUX - <i>Practice</i> - Claire PÉRILLEUX	Q2	35	-	-	<b>5</b>
IMMU0521-1	<i>Immunology</i> - Catherine SADZOT	Q2	25	20	-	<b>3</b>
BIOL0868-1	<i>Biology of multicellular animal organisms</i> - Loïc MICHEL	Q1	15	15	-	<b>3</b>
BIOL0869-1	<i>Biology of multicellular plant organisms</i> - Claire PÉRILLEUX	Q1	15	15	-	<b>3</b>
GENE9002-1	<i>Molecular biology of gene I</i> - Franck DEQUIEDT	Q1	30	-	-	<b>3</b>
GENE9003-1	<i>Molecular biology of gene II</i> - Franck DEQUIEDT - [1d Internship]	Q2	30	30	[+]	<b>6</b>
BIOC9242-2	<i>Biological macromolecules chemistry</i> - <i>Part A</i> - Moreno GALLEN, Loïc QUINTON - <i>Part B</i> - <i>Thermodynamics of biological systems</i> - Moreno GALLEN, Loïc QUINTON	Q1	40	-	-	<b>4</b>
BIOC9243-1	<i>Equilibria in biochemistry and enzyme kinetics</i> - André MATAGNE	Q2	20	40	-	<b>5</b>
BIOL0024-1	<i>Molecular physiology of the cell</i> - Patrick MOTTE	Q2	15	15	-	<b>2</b>
PHIL1227-1	<i>Philosophy and bioethics</i> - <i>Éléments de philosophie des sciences</i> - Pieter THYSSEN - <i>Bioéthique</i> - Florence CAEYMAEX, Patrick DU JARDIN, JeanStéphane GATOT, Julien HANSON, Laurent NGUYEN, Marc VANDENHEEDE	Q2	15	-	-	<b>2</b>
LANG0077-8	<i>English 2 (english language)</i> - Clara BRERETON, Véronique DOPPAGNE, Ellen HARRY	Q1	24	-	-	<b>2</b>
AESS0320-1	<i>Initiation to biology didactics</i> - MarieNoëlle HINDRYCKX	Q2	20	20	-	<b>2</b>