

Block view of the study programme

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Block 1

Compulsory courses

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, N..., Sandra ORMENESE, Loïc QUINTON, 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, Ingrid STRUMAN, 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..., 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, Stéphanie HERKENNE, Sylvie LEGRAND, Patrick MEYER, N..., 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, Frédéric KERFF, Sébastien RIGALI, Catherine SADZOT, Ingrid STRUMAN, Mohammed TERRAK, Marylène VANDEVENNE - [24h AUTR]	Q2	36	8	[+]	5
INFO0960-1	<i>Command-line interfaces and tools for biologists</i> (english language) - Pierre TOCQUIN	Q2	10	10	-	2
SSTG0068-1	<i>Laboratory internship</i> - Denis BAURAIN, François BEAUFAY, Frédéric BOUCHÉ, 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, Bernard PEERS, Claire PÉRILLEUX, Claire REMACLE, Sébastien RIGALI, Catherine SADZOT, Ingrid STRUMAN, Mohammed TERRAK, Nicolas THELEN, Marc THIRY, Pierre TOCQUIN, Marylène VANDEVENNE, Marianne VOZ, Annick WILMOTTE - [5w Internship]	Q2	-	-	[+]	5
BIOL0034-1	<i>Scientific writing</i> - Marjorie BARDIAU, Frédéric BOUCHÉ, Pierre CARDOL, Pierre TOCQUIN - [20h AUTR]	Q2	16	-	[+]	2

Optional free courses

AESS0320-1	<i>Initiation to biology didactics</i> - MarieNoëlle HINDRYCKX	Q2	20	20	-	3
INFO0961-1	<i>Introduction to bioautomatics and image analysis</i> - Patrick MEYER - [12h]	Q2	12	16	[+]	4

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Block 2

Compulsory courses

BIOL0030-1	<i>Modeling dynamical biological systems (english language)</i> - Marilaure GRÉGOIRE, Patrick MEYER - [15h Mon. WS]	Q1	15	-	[+]	3
BIOC9239-1	<i>Structural bioinformatics (english language)</i> - Frédéric KERFF	Q1	20	15	-	3
SMEM0023-1	<i>Final thesis</i> - COLLÉGIALITÉ, Marc HANIKENNE	TA	-	-	-	24

Focus compulsory courses

BIOL0033-1	<i>From the laboratory to the private sector</i> - Jérémie FAYS, Fabienne PIRON, Catherine SADZOT, Benoît VAN DRIESSE, Joëlle WIDART - [20h AUTR]	Q1	20	-	[+]	2
BIOL0029-1	<i>Practical genomics (english language)</i> - Denis BAURAIN, Marc HANIKENNE - [30h Mon. WS]	Q1	10	-	[+]	5
INFO0962-1	<i>Scripting interface for biological software (english language)</i> - Denis BAURAIN - [40h Mon. WS]	Q1	10	-	[+]	6
INFO0963-1	<i>Design and use of biological databases (english language)</i> - Pierre TOCQUIN - [20h Mon. WS]	Q1	10	-	[+]	4
INFO0954-1	<i>Advanced biological data analysis (english language)</i> - Patrick MEYER - [30h Mon. WS]	Q1	10	-	[+]	5
INFO0955-1	<i>Bioinformatics applications: Case studies in veterinary sciences, agronomical sciences and systems medicine (english language)</i> - Tom DRUET, Frédéric FARNIR, Sébastien MASSART, Kristel VAN STEEN - [50h Mon. WS]	Q2	20	-	[+]	8

Bloc d'aménagement du programme de l'année

Bridging courses (0-60 credits) Master in bio-informatics and modelling (120 credits)

With the agreement of the jury and depending on their previous studies, students will follow:

- Either the Bloc 0 programme in the Masters in Biochemistry and Molecular and Cell Biology
- Or a programme worth a maximum of 60 credits, with classes chosen from the Bachelors in Biological Sciences.

Optional courses

Choose courses totalling 60 ECTS amongst :

STAT0750-1	<i>Multivariate statistical analysis (software R)</i> - Arnout VAN MESSEM	Q2	10	10	-	3
STAT0077-1	<i>Computing analysis and processing of biological data</i> - Patrick MEYER	Q1	25	-	-	2
MICR0720-1	<i>Phycology and mycology</i> - Denis BAURAIN	Q1	20	10	-	3
MICR0721-1	<i>Bacteriology</i> - François BEAUFAY, N...	Q1	20	10	-	3
MICR1716-1	<i>Virology</i> - Catherine SADZOT	Q2	20	-	-	2
BIOL0216-1	<i>Animal physiology</i> - JeanChristophe PLUMIER, Marc THIRY	Q1	60	30	-	7
BIOL0217-1	<i>Vegetal physiology</i>	Q2				5
	- <i>Theory</i> - Claire PÉRILLEUX - Suppl : Frédéric BOUCHÉ		35	-	-	
	- <i>Practice</i> - Claire PÉRILLEUX - Suppl : Frédéric BOUCHÉ		-	20	-	
IMMU0521-1	<i>Immunology</i> - Catherine SADZOT	Q2	25	20	-	3
BIOL0868-1	<i>Biology of multicellular animal organisms</i> - Loïc MICHEL	Q1	15	15	-	3
BIOL0869-1	<i>Biology of multicellular plant organisms</i> - Claire PÉRILLEUX	Q1	15	15	-	3
GENE9002-1	<i>Molecular biology of gene I</i> - Franck DEQUIEDT	Q1	30	-	-	3

GENE9003-1	<i>Molecular biology of gene II</i> - Franck DEQUIEDT - [1d Internship]	Q2	30	30	[+]	6
BIOC9242-2	<i>Biological macromolecules chemistry</i> - Part A - Moreno GALLEN, Loïc QUINTON - Part B - Thermodynamics of biological systems - Moreno GALLEN, Loïc QUINTON	Q1	40	-	-	4
BIOC9243-1	<i>Equilibria in biochemistry and enzyme kinetics</i> - André MATAGNE	Q2	20	40	-	5
BIOL0024-1	<i>Molecular physiology of the cell</i> - Patrick MOTTE	Q2	15	15	-	2
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	-	-	2
LANG0077-8	<i>English 2 (english language)</i> - Clara BRERETON, Ellen HARRY, Anastasia ILTUBAEVABOPELET	Q1	24	-	-	2
AESS0320-1	<i>Initiation to biology didactics</i> - MarieNoëlle HINDRYCKX	Q2	20	20	-	2

[...] Courses from the Bachelor in Biology.

Refresher course within the framework of the adjusted programme for students benefiting from direct access in Block 2

With the jury's agreement, the student may follow, if necessary, revision courses for a maximum of 8 credits selected from the courses below, depending on their prior education.

BIOC0726-1	<i>Toolbox: nucleic acid analysis techniques</i> - Denis BAURAIN, Franck DEQUIEDT, Marc HANIKENNE, Patrick MEYER - [4h AUTR]	Q1	24	12	[+]	3
OCEA0224-1	<i>Statistical analysis of oceanographic data</i> - Marilaure GRÉGOIRE, Patrick MEYER	Q1	15	15	-	3
INFO0960-2	<i>Command-line interfaces and tools for biologists (english language)</i> - Pierre TOCQUIN	Q1	10	10	-	2