Block view of the study programme

		Or	Th	Pr	Au	Cr
Block 1						
Compulsory courses						
BIOC0726-1	*Toolbox: nucleic acid analysis techniques* - Denis BAURAIN, Franck DEQUIEDT, Marc HANIKENNE, Patrick MEYER - [4h AUTR]	Q1	24	12	[+]	**3**
BIOC0727-1	*Boîte à Outils : Imagerie et modèles expérimentaux* - Frédéric BOUCHÉ, Grégory FETTWEIS, N..., N..., Sandra ORMENESE, Loïc QUINTON, Nicolas THELEN, Pierre TOCQUIN, Marianne VOZ - [15h AUTR]	Q1	23	-	[+]	**3**
BIOC0728-1	*Toolbox: protein analysis techniques* - Christian DAMBLON, Mireille DUMOULIN, André MATAGNE, N..., Marylène VANDEVENNE - [20h AUTR]	Q2	20	-	[+]	**3**
BIOC0729-1	*Adaptation, Evolution et Diversité* - Denis BAURAIN, Franck DEQUIEDT, Tom DRUET, Moreno GALLENI, Marc HANIKENNE, Alice MOUTON, N..., N..., Claire REMACLE, Catherine SADZOT - [17h AUTR]	Q1	38	7	[+]	**5**
INFO0964-1	*Linux, shell scripting and FAIR bioinformatics workflows* (english language) - Luc CORNET, Pierre TOCQUIN - [20h Mon. WS]	Q1	20	-	[+]	**4**
INFO0962-1	*Scripting interface for biological software* (english language) - Denis BAURAIN - [40h Mon. WS]	Q1	10	-	[+]	**6**
BIOL0030-1	*Modeling dynamical biological systems* (english language) - Marilaure GRÉGOIRE, Patrick MEYER - [15h Mon. WS]	Q1	15	-	[+]	**3**
INFO0954-1	*Machine learning for biological data* (english language) - Patrick MEYER - [30h Mon. WS]	Q1	10	-	[+]	**5**
BIOC0733-1	*Boîte à outils : Biologie structurale* - Christian DAMBLON, Frédéric KERFF, Loïc QUINTON, Arnaud VANDEN BROECK - [8h AUTR]	Q2	24	12	[+]	**3**
INFO0963-1	*Design and use of biological databases* (english language) - Pierre TOCQUIN - [20h Mon. WS]	Q2	10	-	[+]	**3**
INFO0965-1	*Advanced Image Analysis with AI* (english language) - Alexandre HEGO, Pierre TOCQUIN - [10h Mon. WS]	Q2	10	-	[+]	**2**
BIOC9239-1	*Structural bioinformatics* (english language) - Frédéric KERFF	Q2	20	15	-	**3**
INFO0966-1	*Bioinformatics case studies across the Tree of Life* (english language) - Denis BAURAIN, Luc CORNET, Tom DRUET, Frédéric FARNIR, Marc HANIKENNE, Alexandre HEGO, Arnaud LAVERGNE, Sébastien MASSART, Pierre TOCQUIN, Kristel VAN STEEN - [90h Mon. WS]	Q2	10	-	[+]	**10**
SSTG0068-1	*Laboratory internship* - Denis BAURAIN, François BEAUFAY, Alain BRANS, Pierre CARDOL, Franck DEQUIEDT, Emmanuel DI VALENTIN, Mireille DUMOULIN, Grégory FETTWEIS, Moreno GALLENI, Marc HANIKENNE, Stéphanie HERKENNE, Frédéric KERFF, Marielle LEBRUN, Sylvie LEGRAND, André MATAGNE, Patrick MEYER, Johan MICHAUX, Patrick MOTTE, N..., N..., Bernard PEERS, Claire PÉRILLEUX, Claire REMACLE, Sébastien RIGALI, Catherine SADZOT, Ingrid STRUMAN, Mohammed TERRAK, Nicolas THELEN, Pierre TOCQUIN, Marianne VOZ - [5w Internship]	Q2	-	-	[+]	**5**
BIOL0034-2	*Ecriture scientifique* - *Partim A* - Marjorie BARDIAU, Frédéric BOUCHÉ, Pierre CARDOL, Pierre TOCQUIN - [20h AUTR] - *Partim B* - Pierre TOCQUIN - [2h AUTR]	Q2	16 2	- -	[+] [+]	**2**
Optional free course						
AESS0320-1	*Initiation to biology didactics* - MarieNoëlle HINDRYCKX	Q2	20	20	-	**3**
Block 2						
Compulsory courses						

SMEM0023-1	*Final thesis* - COLLÉGIALITÉ, Marc HANIKENNE	TA	-	-	-	**26**
BIOL0033-2	*Du laboratoire à l'entreprise* - *Partim A* - Jérémie FAYS, Philippe HUBERT, Fabienne PIRON, Catherine SADZOT, Benoît VAN DRIESSCHE, Joëlle WIDART - [20h AUTR] - *Partim B* - Jérémie FAYS	Q1 	 20 4	 - -	 [+] -	**4**

Focus compulsory courses

INFO0967-1	*Mémoire (complément)* - COLLÉGIALITÉ, Marc HANIKENNE	TA	-	-	-	**10**

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

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

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	*Analyse statistique multivariée (logiciel R)* - Arnout VAN MESSEM	Q2	10	14	-	**3**
STAT0077-1	*Computing analysis and processing of biological data* - Patrick MEYER	Q1	25	-	-	**2**
MICR0720-1	*Phycology and mycology* - Denis BAURAIN	Q1	20	10	-	**3**
MICR0721-1	*Bacteriology* - François BEAUFAY, N...	Q1	20	10	-	**3**
MICR1716-1	*Virology* - Catherine SADZOT	Q2	20	-	-	**2**
BIOL0216-1	*Physiologie animale* - JeanChristophe PLUMIER	Q1	45	25	-	**6**
BIOL0217-1	*Vegetal physiology* - *Theory* - Claire PÉRILLEUX - *Practice* - Claire PÉRILLEUX	Q2 	 35 -	 - 20	 - -	**5**
IMMU0521-1	*Immunology* - Catherine SADZOT	Q2	25	20	-	**3**
BIOL0868-1	*Biology of multicellular animal organisms* - Bruno FREDERICH	Q1	15	15	-	**3**
BIOL0869-1	*Biology of multicellular plant organisms* - Claire PÉRILLEUX	Q1	15	15	-	**3**
GENE9002-1	*Molecular biology of gene I* - Franck DEQUIEDT	Q1	30	-	-	**3**
GENE9003-1	*Molecular biology of gene II* - Franck DEQUIEDT - [1d Internship]	Q2	30	30	[+]	**6**
BIOC9242-2	*Biological macromolecules chemistry* - *Part A* - Moreno GALLENI, Loïc QUINTON - *Part B - Thermodynamics of biological systems* - Moreno GALLENI, Loïc QUINTON	Q1 	 40 10	 - -	 - -	**5**
BIOC9243-1	*Equilibria in biochemistry and enzime kinetics* - André MATAGNE	Q2	20	40	-	**5**
BIOL0024-1	*Physiologie moléculaire de la cellule* - Patrick MOTTE	Q2	20	15	-	**2**
PHIL1227-1	*Philosophy and bioethics* - *Eléments de philosophie des sciences* - Pieter THYSSEN - *Bioéthique* - Florence CAEYMAEX, Patrick DU JARDIN, JeanStéphane GATOT, Julien HANSON, Laurent NGUYEN,	Q2 	 15 15	 - -	 - -	**2**

	ANDENHEEDE					
LANG0077-8	*English 2* (english language) - Clara BRERETON, Ellen HARRY, Anastasia ILTUBAEVABOPELET	Q1	24	-	-	**2**
AESS0320-1	*Initiation to biology didactics* - 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

En accord avec le Jury, l'étudiant suivra, si nécessaire, des cours de mise à niveau pour un maximum de 15 crédits sélectionnés parmi les cours du bloc 1.

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

Compulsory courses

INFO0964-1	*Linux, shell scripting and FAIR bioinformatics workflows* (english language) - Luc CORNET, Pierre TOCQUIN - [20h Mon. WS]	Q1	20	-	[+]	**4**
INFO0962-1	*Scripting interface for biological software* (english language) - Denis BAURAIN - [40h Mon. WS]	Q1	10	-	[+]	**6**
BIOL0030-1	*Modeling dynamical biological systems* (english language) - Marilaure GRÉGOIRE, Patrick MEYER - [15h Mon. WS]	Q1	15	-	[+]	**3**
INFO0954-1	*Machine learning for biological data* (english language) - Patrick MEYER - [30h Mon. WS]	Q1	10	-	[+]	**5**
INFO0963-1	*Design and use of biological databases* (english language) - Pierre TOCQUIN - [20h Mon. WS]	Q2	10	-	[+]	**3**
INFO0965-1	*Advanced Image Analysis with AI* (english language) - Alexandre HEGO, Pierre TOCQUIN - [10h Mon. WS]	Q2	10	-	[+]	**2**
BIOC9239-1	*Structural bioinformatics* (english language) - Frédéric KERFF	Q2	20	15	-	**3**
INFO0966-1	*Bioinformatics case studies across the Tree of Life* (english language) - Denis BAURAIN, Luc CORNET, Tom DRUET, Frédéric FARNIR, Marc HANIKENNE, Alexandre HEGO, Arnaud LAVERGNE, Sébastien MASSART, Pierre TOCQUIN, Kristel VAN STEEN - [90h Mon. WS]	Q2	10	-	[+]	**10**
SMEM0023-1	*Final thesis* - COLLÉGIALITÉ, Marc HANIKENNE	TA	-	-	-	**24**