

Block view of the study programme

Or Th Pr Au Cr

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.

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|------------|---|----|----|----|-----|---|
| BIOC0726-1 | <i>Toolbox: nucleic acid analysis techniques</i> - Denis BAURAIN, Franck DEQUIEDT, Marc HANIKENNE, Patrick MEYER - [4h AUTR] | Q1 | 20 | 16 | [+] | 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 - [16h AUTR] | Q1 | 20 | 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 | 10 | [+] | 5 |
| BIOC0730-1 | <i>Development, from the cell to the organism</i> - Patrick MOTTE, Bernard PEERS, Claire PÉRILLEUX, Sébastien RIGALI, Ingrid STRUMAN, Mohammed TERRAK, Marc THIRY, Pierre TOCQUIN - [45h AUTR] | Q1 | 60 | 15 | [+] | 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, Sébastien RIGALI, Catherine SADZOT - [25h AUTR] | Q1 | 40 | 15 | [+] | 5 |
| BIOC0733-1 | <i>Toolbox: structural biology</i> - Christian DAMBLON, Frédéric KERFF, N..., Loïc QUINTON - [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 | 60 | 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, Ingrid STRUMAN, Mohammed TERRAK, Marylène VANDEVENNE - [35h AUTR] | Q2 | 40 | 5 | [+] | 5 |
| SSTG0065-1 | <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 - [6w Internship] | Q2 | - | - | [+] | 9 |

Old programme

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

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|------------|--|----|----|---|-----|----|
| 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, Yvette HABRAKEN, Sylvie LEGRAND, Isabelle MANFROID, N..., H. PENDEVILLE SAMAIN, 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> - Moreno GALLEN, Annick WILMOTTE - [5h Mon. WS] | Q2 | 10 | - | [+] | 2 |

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|------------|--|----|----|---|---|---|
| MICR0004-1 | <i>Bacterial pathogenesis</i> - N... | Q2 | 15 | - | - | 2 |
| MICR0005-1 | <i>Protistology</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> - Patrick FICKERS | Q2 | 20 | - | - | 2 |

Genetics, physiology and developmental biology

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|------------|---|----|----|---|-----|---|
| 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 | TA | 20 | 20 | - | 3 |
| SBIM0486-2 | <i>Experimental methodologies in living animals</i> - Pierre DRION | Q1 | 25 | 10 | - | 3 |

Block 2

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 | 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 - [10h AUTR] | Q1 | 20 | - | [+] | 2 |

Choose one focus from the following :

Research Focus

| | | | | | | |
|--|---|----|---|---|-----|----|
| BBMC0020-1 | <i>Final thesis (complement)</i> - COLLÉGIALITÉ | TA | - | - | - | 10 |
| 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 |

Teaching focus

| | | | | | | |
|------------|---|----|----|---|---|---|
| AESS1217-1 | <i>Special didactics in biology : course and exercises (1st part)</i> - MarieNoëlle HINDRYCKX | TA | 40 | - | - | 3 |
| AESS1218-1 | <i>Special didactics in biology : placements (1st part)</i> | TA | | | | 3 |

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|------------|---|----|----|----|-----|---|
| | - <i>Observation placements</i> - MarieNoëlle HINDRYCKX - [10h Internship] | | - | - | [+] | |
| | - <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship] | | - | - | [+] | |
| | - <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX | | - | 5 | - | |
| AESS2217-1 | <i>Special didactics in biology : course and exercises (part II)</i> - MarieNoëlle HINDRYCKX - [1d FW] | TA | 35 | - | [+] | 4 |
| AESS2218-1 | <i>Special didactics in biology : placements (2nd part)</i> | TA | | | | 5 |
| | - <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship] | | - | - | [+] | |
| | - <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX | | - | 5 | - | |
| | - <i>Extra-scholar teaching activities</i> - MarieNoëlle HINDRYCKX | | - | 10 | - | |
| AESS0202-1 | <i>General didactics: course and exercises ; observation placements ; reflexive practices</i> - Annick FAGNANT - [10h Internship] | TA | 30 | 10 | [+] | 4 |
| AESS0246-1 | <i>Analysis of scholastic institutions and educational policies</i> - Annelise VOISIN | Q2 | 15 | - | - | 1 |
| AESS0248-1 | <i>Elements of sociology of education</i> - JeanFrançois GUILLAUME | Q2 | 10 | - | - | 1 |
| AESS0004-1 | <i>Media education</i> - Jeremy HAMERS | Q1 | 15 | - | - | 1 |
| AESS0249-1 | <i>Interdisciplinary seminar</i> - Annick FAGNANT | Q2 | 15 | - | - | 1 |
| AESS0140-1 | <i>Professional ethics and training to neutrality and citizenship</i> - Anne HERLA | Q2 | 25 | - | - | 2 |
| AESS0143-1 | <i>Educational Psychology of adolescents and young adults</i> - Annick FAGNANT | Q1 | 15 | - | - | 2 |
| AESS0339-1 | <i>Understand and manage the diversity of public schools</i> - Ariane BAYE | TA | 10 | 15 | - | 3 |

Old programme

| | | | | | | |
|------------|--|----|----|---|-----|----|
| SMEM0019-1 | <i>Final thesis</i> - COLLÉGIALITÉ | 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 - [10h AUTR] | Q1 | 20 | - | [+] | 2 |

Choose one focus from the following :

Research Focus

| | | | | | | |
|--|---|----|---|---|-----|----|
| BBMC0020-1 | <i>Final thesis (complement)</i> - COLLÉGIALITÉ | TA | - | - | - | 10 |
| 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 |

Teaching focus

| | | | | | | |
|------------|---|----|----|---|-----|---|
| AESS1217-1 | <i>Special didactics in biology : course and exercises (1st part)</i> - MarieNoëlle HINDRYCKX | TA | 40 | - | - | 3 |
| AESS1218-1 | <i>Special didactics in biology : placements (1st part)</i> | TA | | | | 3 |
| | - <i>Observation placements</i> - MarieNoëlle HINDRYCKX - [10h Internship] | | - | - | [+] | |
| | - <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship] | | - | - | [+] | |
| | - <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX | | - | 5 | - | |
| AESS2217-1 | <i>Special didactics in biology : course and exercises (part II)</i> - MarieNoëlle HINDRYCKX | TA | 35 | - | [+] | 4 |

MarieNoëlle HINDRYCKX - [1d FW]

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|------------|---|----|----|----|-----|--|--|----------|
| AESS2218-1 | <i>Special didactics in biology : placements (2nd part)</i> - <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship] - <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX - <i>Extra-scholar teaching activities</i> - MarieNoëlle HINDRYCKX Corequisite : AESS1218-1 - Didactique spéciale en biologie : stages (partim I) | TA | | | | | | 5 |
| | | | - | - | [+] | | | |
| | | | - | 5 | - | | | |
| | | | - | 10 | - | | | |
| AESS0202-1 | <i>General didactics: course and exercises ; observation placements ; reflexive practices</i> - Annick FAGNANT - [10h Internship] Corequisite : AESS1218-1 - Didactique spéciale en biologie : stages (partim I) | TA | 30 | 10 | [+] | | | 4 |
| AESS0246-1 | <i>Analysis of scholastic institutions and educational policies</i> - Annelise VOISIN | Q2 | 15 | - | - | | | 1 |
| AESS0248-1 | <i>Elements of sociology of education</i> - JeanFrançois GUILLAUME | Q2 | 10 | - | - | | | 1 |
| AESS0004-1 | <i>Media education</i> - Jeremy HAMERS | Q1 | 15 | - | - | | | 1 |
| AESS0249-1 | <i>Interdisciplinary seminar</i> - Annick FAGNANT | Q2 | 15 | - | - | | | 1 |
| AESS0140-1 | <i>Professional ethics and training to neutrality and citizenship</i> - Anne HERLA | Q2 | 25 | - | - | | | 2 |
| AESS0143-1 | <i>Educational Psychology of adolescents and young adults</i> - Annick FAGNANT | Q1 | 15 | - | - | | | 2 |
| AESS0339-1 | <i>Understand and manage the diversity of public schools</i> - Ariane BAYE | TA | 10 | 15 | - | | | 3 |

Bloc d'aménagement du programme de l'année

Additional ECTS 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 | - | | | 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 | 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> - <i>Theory</i> - Claire PÉRILLEUX - <i>Practice</i> - Claire PÉRILLEUX | Q2 | | | | 35 | - | 5 |
| | | | | | | - | 20 | |
| IMMU0521-1 | <i>Immunology</i> - Catherine SADZOT | Q2 | 25 | 20 | - | | | 3 |
| BIOL0003-1 | <i>Biology of pluricellular organisms</i> - <i>Animal</i> - Loïc MICHEL - <i>Plant Biology</i> - Claire PÉRILLEUX | Q1 | | | | 15 | 15 | 5 |
| | | | | | | 15 | 15 | |
| 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 | Q2 | 30 | 30 | - | | | 4 |
| BIOC9242-2 | <i>Biological macromolecules chemistry</i> - <i>Part A</i> - Moreno GALLEN, Loïc QUINTON - <i>Part B - Thermodynamics of biological systems</i> - Moreno GALLEN | Q1 | | | | 40 | - | 4 |
| | | | | | | 10 | - | |
| BIOC9243-1 | <i>Equilibria in biochemistry and enzyme kinetics</i> - André MATAGNE | Q2 | 20 | 40 | - | | | 5 |

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| BIOL0024-1 | <i>Molecular physiology of the cell</i> - Patrick MOTTE | Q2 | 15 | 15 | - | 2 |
| STRA0044-1 | <i>Training in scientific communication</i> - François BEAUFAY, Moreno GALLEN, Patrick MOTTE, Marianne VOZ - [40h Internship] | Q2 | - | - | [+] | 3 |
| PHIL1227-1 | <i>Philosophy and bioethics</i> - <i>Eléments de philosophie des sciences</i> - Julien PIERON - <i>Bioéthique</i> - Florence CAEYMAEX, Patrick DU JARDIN, N... | Q2 | 15 | - | - | 2 |
| LANG0077-8 | <i>English 2 (english language)</i> - Clara BRERETON, Véronique DOPPAGNE, Ellen HARRY | TA | 45 | - | - | 4 |