

#### Cycle view of the study programme

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Bl | Or | Th | Pr | Au  | Cr |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|-----|----|
| <b>Compulsory courses (B1 : 60Cr, B2 : 30Cr)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |    |    |    |     |    |
| BIOC0726-1                                       | <i>Toolbox: nucleic acid analysis techniques</i> - Denis BAURAIN, Franck DEQUIEDT, Marc HANIKENNE, Patrick MEYER - [4h AUTR]                                                                                                                                                                                                                                                                                                                                                                                                                                                         | B1 | 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]                                                                                                                                                                                                                                                                                                                                                                                      | B1 | 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]                                                                                                                                                                                                                                                                                                                                                                                                         | B1 | 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]                                                                                                                                                                                                                                                                                                                                                                            | B1 | 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]                                                                                                                                                                                                                                                                                                                                                                                                            | B1 | 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]                                                                                                                                                                                                                                                                                                                                                                                                                                        | B1 | 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]                                                                                                                                                                                                                                                                                                                                                                                                       | B1 | Q1 | 36 | 16 | [+] | 5  |
| BIOC0733-1                                       | <i>Toolbox: structural biology</i> - Christian DAMBLON, Frédéric KERFF, Loïc QUINTON, Arnaud VANDEN BROECK - [5h AUTR]                                                                                                                                                                                                                                                                                                                                                                                                                                                               | B1 | Q2 | 20 | 15 | [+] | 3  |
| BIOC0734-1                                       | <i>Metabolism</i> - Pierre CARDOL, Stéphanie HERKENNE, Sylvie LEGRAND, Patrick MEYER, N..., Claire REMACLE - [30h AUTR]                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B1 | 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]                                                                                                                                                                                                                                                                                                                                                                                         | B1 | 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]                                                                                                                                                                                                                                                                                                                                                     | B1 | Q2 | 36 | 8  | [+] | 5  |
| BIOL0034-1                                       | <i>Scientific writing</i> - Marjorie BARDIAU, Frédéric BOUCHÉ, Pierre CARDOL, Pierre TOCQUIN - [20h AUTR]                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | B1 | Q2 | 16 | -  | [+] | 2  |
| 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, Annick WILMOTTE - [6w Internship] | B1 | TA | -  | -  | [+] | 7  |
| SMEM0019-1                                       | <i>Final thesis</i> - COLLÉGIALITÉ, Claire PÉRILLEUX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | B2 | TA | -  | -  | -   | 27 |
| BIOL0033-1                                       | <i>From the laboratory to the private sector</i> - Jérémie FAYS, Fabienne PIRON, Catherine SADZOT, Benoît VAN DRIESSCHE, Joëlle WIDART - [20h AUTR]                                                                                                                                                                                                                                                                                                                                                                                                                                  | B2 | Q1 | 20 | -  | [+] | 3  |

#### Optional free courses (B1 : 6Cr)

|            |                                                                                |    |    |    |    |   |   |
|------------|--------------------------------------------------------------------------------|----|----|----|----|---|---|
| AESS0320-1 | <i>Initiation to biology didactics</i> - MarieNoëlle HINDRYCKX                 | B1 | Q2 | 20 | 20 | - | 3 |
| SBIM0486-2 | <i>Methodology of animal experimentation</i> (english language) - Pierre DRION | B1 | Q1 | 25 | 10 | - | 3 |

Only accessible to students enrolled in the Master's programme before the 2025-2026 academic year.

#### Focus compulsory courses (B2 : 30Cr)

|            |                                                                                                                                                                                                                                                                                   |    |    |    |    |     |   |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|-----|---|
| AESS1217-1 | <i>Special didactics in biology : course and exercises (1st part)</i> - MarieNoëlle HINDRYCKX                                                                                                                                                                                     | B2 | TA | 40 | -  | -   | 3 |
| AESS1218-1 | <i>Special didactics in biology : placements (1st part)</i><br>- <i>Observation placements</i> - MarieNoëlle HINDRYCKX - [10h Internship]<br>- <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship]<br>- <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX | B2 | TA |    |    |     | 3 |
|            |                                                                                                                                                                                                                                                                                   |    |    | -  | -  | [+] |   |
|            |                                                                                                                                                                                                                                                                                   |    |    | -  | -  | [+] |   |
|            |                                                                                                                                                                                                                                                                                   |    |    | -  | 5  | -   |   |
| AESS2217-1 | <i>Special didactics in biology : course and exercises (part II)</i> - MarieNoëlle HINDRYCKX - [1d FW]                                                                                                                                                                            | B2 | TA | 35 | -  | [+] | 4 |
| AESS2218-1 | <i>Special didactics in biology : placements (2nd part)</i><br>- <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship]<br>- <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX<br>- <i>Extra-scholar teaching activities</i> - MarieNoëlle HINDRYCKX         | B2 | TA |    |    |     | 5 |
|            |                                                                                                                                                                                                                                                                                   |    |    | -  | -  | [+] |   |
|            |                                                                                                                                                                                                                                                                                   |    |    | -  | 5  | -   |   |
|            |                                                                                                                                                                                                                                                                                   |    |    | -  | 10 | -   |   |
| AESS0202-1 | <i>General didactics: course and exercises ; observation placements ; reflexive practices</i> - Annick FAGNANT, Margaux NOIZET - [10h Internship]                                                                                                                                 | B2 | TA | 30 | 10 | [+] | 4 |
| AESS0246-1 | <i>Analysis of scholastic institutions and educational policies</i> - Annelise VOISIN                                                                                                                                                                                             | B2 | Q2 | 15 | -  | -   | 1 |
| AESS0248-1 | <i>Elements of sociology of education</i> - JeanFrançois GUILLAUME                                                                                                                                                                                                                | B2 | Q2 | 10 | -  | -   | 1 |
| AESS0004-1 | <i>Media education</i> - Elise SCHÜRGENS                                                                                                                                                                                                                                          | B2 | Q2 | 15 | -  | -   | 1 |
| AESS0249-1 | <i>Interdisciplinary seminar</i> - Annick FAGNANT                                                                                                                                                                                                                                 | B2 | Q2 | 15 | -  | -   | 1 |
| AESS0140-1 | <i>Professional ethics and training to neutrality and citizenship</i> - Anne HERLA                                                                                                                                                                                                | B2 | Q2 | 25 | -  | -   | 2 |
| AESS0143-1 | <i>Educational Psychology of adolescents and young adults</i> - Annick FAGNANT                                                                                                                                                                                                    | B2 | Q1 | 15 | -  | -   | 2 |
| AESS0339-1 | <i>Understand and manage the diversity of public schools</i> - Ariane BAYE                                                                                                                                                                                                        | B2 | TA | 10 | 15 | -   | 3 |

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

#### Compulsory courses (B0 : 60Cr)

|            |                                                                                                                                                             |    |    |    |    |   |   |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|---|---|
| STAT0750-1 | <i>Multivariate statistical analysis (software R)</i> - Arnout VAN MESSEM                                                                                   | B0 | Q2 | 10 | 10 | - | 3 |
| STAT0077-1 | <i>Computing analysis and processing of biological data</i> - Patrick MEYER                                                                                 | B0 | Q1 | 25 | -  | - | 2 |
| MICR0720-1 | <i>Phycology and mycology</i> - Denis BAURAIN                                                                                                               | B0 | Q1 | 20 | 10 | - | 3 |
| MICR0721-1 | <i>Bacteriology</i> - François BEAUFAY, N...                                                                                                                | B0 | Q1 | 20 | 10 | - | 3 |
| MICR1716-1 | <i>Virology</i> - Catherine SADZOT                                                                                                                          | B0 | Q2 | 20 | -  | - | 2 |
| BIOL0216-1 | <i>Animal physiology</i> - JeanChristophe PLUMIER, Marc THIRY                                                                                               | B0 | Q1 | 60 | 30 | - | 7 |
| BIOL0217-1 | <i>Vegetal physiology</i><br>- <i>Theory</i> - Claire PÉRILLEUX - Suppl : Frédéric BOUCHÉ<br>- <i>Practice</i> - Claire PÉRILLEUX - Suppl : Frédéric BOUCHÉ | B0 | Q2 |    |    |   | 5 |
|            |                                                                                                                                                             |    |    | 35 | -  | - |   |
|            |                                                                                                                                                             |    |    | -  | 20 | - |   |
| IMMU0521-1 | <i>Immunology</i> - Catherine SADZOT                                                                                                                        | B0 | Q2 | 25 | 20 | - | 3 |

### Master in biochemistry and molecular and cell biology, teaching focus (Réinscription uniquement, pas de nouvelle inscription)

|            |                                                                                               |    |    |    |    |     |   |
|------------|-----------------------------------------------------------------------------------------------|----|----|----|----|-----|---|
| BIOL0868-1 | <i>Biology of multicellular animal organisms</i> - Loïc MICHEL                                | B0 | Q1 | 15 | 15 | -   | 3 |
| BIOL0869-1 | <i>Biology of multicellular plant organisms</i> - Claire PÉRILLEUX                            | B0 | Q1 | 15 | 15 | -   | 3 |
| GENE9002-1 | <i>Molecular biology of gene I</i> - Franck DEQUIEDT                                          | B0 | Q1 | 30 | -  | -   | 3 |
| GENE9003-1 | <i>Molecular biology of gene II</i> - Franck DEQUIEDT - [1d Internship]                       | B0 | Q2 | 30 | 30 | [+] | 6 |
| BIOC9242-2 | <i>Biological macromolecules chemistry</i>                                                    | B0 | Q1 |    |    |     | 4 |
|            | - Part A - Moreno GALLEN, Loïc QUINTON                                                        |    | 40 | -  | -  |     |   |
|            | - Part B - Thermodynamics of biological systems - Moreno GALLEN, Loïc QUINTON                 |    | 10 | -  | -  |     |   |
| BIOC9243-1 | <i>Equilibria in biochemistry and enzyme kinetics</i> - André MATAGNE                         | B0 | Q2 | 20 | 40 | -   | 5 |
| BIOL0024-1 | <i>Molecular physiology of the cell</i> - Patrick MOTTE                                       | B0 | Q2 | 15 | 15 | -   | 2 |
| PHIL1227-1 | <i>Philosophy and bioethics</i>                                                               | B0 | Q2 |    |    |     | 2 |
|            | - <i>Eléments de philosophie des sciences</i> - Pieter THYSSEN                                |    | 15 | -  | -  |     |   |
|            | - <i>Bioéthique</i> - Florence CAEYMAEX, Patrick DU JARDIN,                                   |    | 15 | -  | -  |     |   |
|            | JeanStéphane GATOT, Julien HANSON, Laurent NGUYEN, Marc VANDENHEEDE                           |    |    |    |    |     |   |
| LANG0077-8 | <i>English 2 (english language)</i> - Clara BRERETON, Ellen HARRY, Anastasia ILTUBAEVABOPELET | B0 | Q1 | 24 | -  | -   | 2 |
| AESS0320-1 | <i>Initiation to biology didactics</i> - MarieNoëlle HINDRYCKX                                | B0 | Q2 | 20 | 20 | -   | 2 |