

First Year

Compulsory courses

| | | | | | |
|------------|---|----|----|-----|----|
| BIOC0210-5 | <i>Functional properties of biological macromolecules</i> - André MATAGNE - [10h Mon. WS] | 20 | 20 | [+] | 3 |
| BIOC0720-1 | <i>Structure of biological macromolecules</i> - Paulette CHARLIER - [5h Mon. WS] | 15 | 20 | [+] | 2 |
| BIOC0721-1 | <i>Optical properties of biological macromolecules</i> - Christian DAMBLON, André MATAGNE | 15 | 20 | - | 2 |
| BIOC0709-4 | <i>Bioenergetics</i> - Pierre CARDOL, Fabrice FRANCK | 20 | 20 | - | 2 |
| GENE0001-4 | <i>Genetic engineering</i> - Jacques DOMMES | 20 | 20 | - | 2 |
| BIOL0008-1 | <i>Bioinformatics</i> - Denis BAURAIN | 25 | 20 | - | 3 |
| BIOL0009-1 | <i>Molecular and cellular animal physiology</i> - Marc THIRY | 15 | 20 | - | 2 |
| BIOL0010-1 | <i>Molecular and cellular plant physiology</i> - Patrick MOTTE | 15 | 20 | - | 2 |
| GENE0003-1 | <i>Genomics</i> - Marc HANIKENNE | 20 | 20 | - | 2 |
| BIOC0003-2 | <i>Biochemistry and physiology of the micro-organisms</i> - Bernard JORIS | 20 | 20 | - | 2 |
| AESS0320-1 | <i>Initiation to biology didactics</i> - MarieNoëlle HINDRYCKX | 20 | 20 | - | 2 |
| STRA0038-1 | <i>Seminars</i> - COLLÉGIALITÉ, Philippe THONART | 5 | - | - | 1 |
| SSTG0009-1 | <i>Placement or practical integrated work (including seminars)</i> - COLLÉGIALITÉ, Patrick MOTTE - [10w Internship] | - | - | [+] | 20 |

Optional courses

With the approval of the Board of Studies, choose one option from the following :

Biochemistry

| | | | | | |
|------------|--|----|---|-----|---|
| BIOC0722-1 | <i>Application of spectroscopic techniques to the study of folding and stability of proteins</i> - André MATAGNE - [10h Mon. WS] | 20 | - | [+] | 3 |
| CHIM0687-1 | <i>Introduction to protein NMR</i> - Christian DAMBLON - [10h Mon. WS] | 10 | - | [+] | 3 |
| GENE0432-4 | <i>Genetic and biochemical aspects of evolution</i> - Moreno GALLEN, Claire REMACLE | 30 | - | - | 3 |
| BIOC0723-1 | <i>Complement of bioenergetics</i> - Pierre CARDOL, Fabrice FRANCK | 25 | - | - | 3 |
| CHIM0688-1 | <i>Mass spectrometry</i> - Edwin DE PAUW - [10h Mon. WS] | 15 | - | [+] | 3 |

Genetics

| | | | | | |
|------------|---|----|---|-----|---|
| GENE0444-1 | <i>Genetic engineering of pluricellular eukaryotes</i> - Jacques DOMMES | 15 | - | - | 2 |
| GENE0445-1 | <i>Quantitative genetics</i> - N... - Suppl : Tom DRUET - [15h Mon. WS] | 15 | - | [+] | 3 |
| GENE0446-1 | <i>Population genetics</i> - Johan MICHAUX, Claire REMACLE | 25 | - | - | 3 |
| GENE0441-2 | <i>organelle genetics</i> - Claire REMACLE | 15 | - | - | 2 |
| GENE0447-1 | <i>Evolution biochemical aspects</i> - Moreno GALLEN, Claire REMACLE | 30 | - | - | 3 |
| BIOC0710-3 | <i>Metabolic pathways</i> - Fabrice FRANCK | 15 | - | - | 2 |

Physiology and developmental biology

| | | | | | |
|------------|---|----|---|---|---|
| BIOL0011-1 | <i>Biology of animal development</i> - Bernard PEERS | 25 | - | - | 3 |
| BIOL0012-1 | <i>Biology of plant development</i> - Claire PÉRILLEUX | 25 | - | - | 3 |
| BIOL0013-1 | <i>Development of microorganisms</i> - Sébastien RIGALI | 15 | - | - | 2 |
| BIOL0014-1 | <i>Dynamic molecular imaging</i> - Patrick MOTTE | 15 | - | - | 2 |
| BIOL0015-1 | <i>Complement of molecular and cellular animal physiology</i> - Marc MULLER | 20 | - | - | 3 |
| BIOC0710-3 | <i>Metabolic pathways</i> - Fabrice FRANCK | 15 | - | - | 2 |

Microbiology and Immunology

| | | | | | |
|------------|---|----|---|---|---|
| MICR0002-1 | <i>Immunology and vaccinology</i> - Jacques PIETTE, Catherine SADZOT | 25 | - | - | 3 |
| MICR0003-1 | <i>Complement of microbiology : virology</i> - Jacques PIETTE | 15 | - | - | 2 |
| MICR0004-1 | <i>Complement of microbiology : bacterial pathogenicity</i> - Bernard JORIS | 15 | - | - | 2 |
| MICR0005-1 | <i>Complement of microbiology : Prostistology</i> - Denis BAURAIN | 15 | - | - | 2 |
| BIOL0013-1 | <i>Development of microorganisms</i> - Sébastien RIGALI | 15 | - | - | 2 |
| MICR1713-1 | <i>Extremophile microorganisms</i> - Georges FELLER, Moreno GALLEN, Annick WILMOTTE | 15 | - | - | 2 |

CHIM0059-6 *Industrial Microbiology* - Philippe THONART 20 - - 2

Second Year

Compulsory courses

| | | | | | |
|------------|--|----|---|---|-----------|
| SMEM0019-1 | <i>Final thesis</i> - COLLÉGIALITÉ | - | - | - | 25 |
| BIOL0016-1 | <i>Introduction to intellectual property and quality insurance</i> - Nicole ANTHEUNIS, Jacques DOMMES | 25 | - | - | 3 |
| BIOC0717-2 | <i>Applied Bioinformatics</i> - Bernard JORIS | 20 | - | - | 2 |

Compulsory courses

| | | | | | |
|------------|---|----|----|-----|----------|
| AESS0246-1 | <i>Analysis of scholastic institutions and key-players, educational policies</i> - Jacqueline BECKERS | 15 | - | - | 1 |
| AESS0247-1 | <i>Views on cultural diversity</i> - Jérôme JAMIN | 10 | - | - | 1 |
| AESS0248-1 | <i>Elements of sociology of education</i> - JeanFrançois GUILLAUME | 10 | - | - | 1 |
| AESS0140-1 | <i>Professional ethics and training to neutrality and citizenship</i> - Anne HERLA | 25 | - | - | 2 |
| AESS0202-1 | <i>General didactics: course and exercises ; observation placements ; reflexive practices</i> - - Annick FAGNANT - [10h Internship] | 30 | 10 | [+] | 4 |
| AESS0004-1 | <i>Media education</i> - Geneviève VAN CAUWENBERGE | 15 | - | - | 1 |
| AESS0249-1 | <i>Interdisciplinary seminar</i> - Annick FAGNANT | 15 | - | - | 1 |
| AESS0143-1 | <i>Educational Psychology of adolescents and young adults</i> - Annick FAGNANT | 15 | - | - | 2 |
| AESS0142-1 | <i>Seminar on prevention and management of difficult school situations</i> - Jocelyne ROBERT | 15 | - | - | 2 |
| AESS1217-1 | <i>Special didactics in biology : course and exercises (1st part)</i> - MarieNoëlle HINDRYCKX | 40 | - | - | 3 |
| AESS1218-1 | <i>Special didactics in biology : placements (1st part)</i> - <i>Observation placements</i> - MarieNoëlle HINDRYCKX - [10h Internship] - <i>Teaching placements</i> - MarieNoëlle HINDRYCKX - [20h Internship] - <i>Reflexive practical work</i> - MarieNoëlle HINDRYCKX | - | - | [+] | 3 |
| AESS2217-1 | <i>Special didactics in biology : course and exercises (2nd part)</i> - MarieNoëlle HINDRYCKX | 35 | - | - | 4 |
| 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 | - | - | [+] | 5 |
| | | - | 5 | - | |
| | | - | 10 | - | |