

## First Year

### Compulsory courses

BIOC0210-4	<i>Functional properties of biological macromolecules</i> - Edwin DE PAUW, André MATAGNE - [15h Mon. WS]	30	20	[+]	5
CHIM9218-1	<i>Biospectroscopy and nuclear magnetic resonance applied to biology</i> - Christian DAMBLON - [15h Mon. WS]	20	-	[+]	3
BIOC9233-1	<i>Structure and Dynamic of biological macromolecules</i> - Paulette CHARLIER, André MATAGNE - [20h Mon. WS]	20	20	[+]	4
BIOC0709-3	<i>Bioenergetics</i> - Pierre CARDOL, Fabrice FRANCK	30	20	-	3
BIOL0803-2	<i>Molecular and cellular physiology</i> - Patrick MOTTE, Marc MULLER, Marc THIRY	40	20	-	5
BIOC0710-2	<i>Metabolic pathways</i> - Fabrice FRANCK	15	20	-	2
GENE0001-3	<i>Genetic engineering</i> - Jacques DOMMES, Jacques DOMMES	30	20	-	4
BIOL0804-2	<i>Developmental Biology</i> - Bernard PEERS, Claire PÉRILLEUX	25	20	-	3
GENE0432-3	<i>Genetic and biochemical aspects of evolution</i> - Denis BAURAIN, Moreno GALLEN, Claire REMACLE	25	20	-	3
BIOC0003-2	<i>Biochemistry and physiology of the micro-organisms</i> - Bernard JORIS	20	20	-	2
MICR0207-2	<i>Further Immunology</i> - Catherine SADZOT	15	20	-	2
CHIM0059-4	<i>Industrial Microbiology</i> - Philippe THONART	15	20	-	2
BIOL0845-1	<i>Introduction to bioinformatics</i> - Denis BAURAIN	15	20	-	2
SSTG0009-1	<i>Placement or practical integrated work (including seminars)</i> - COLLÉGIALITÉ, Patrick MOTTE - [10w Internship]	-	-	[+]	20

### Optional free course

AESS0254-1	<i>Introduction to biology didactics</i> - Marie-Noëlle HINDRYCKX	20	-	-	2
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## Second Year

### Compulsory course

SMEM0019-1	<i>Final thesis</i> - COLLÉGIALITÉ	-	-	-	25
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### Optional courses

Choose 1 course, with the approval of the Board of Studies, amongst :

BBMC0001-1	<i>Inter-academy thematic week</i> - COLLÉGIALITÉ - [1w SEM]	-	-	[+]	5
BBMC0001-2	<i>Inter-academy thematic week</i> - COLLÉGIALITÉ - [1w SEM]	-	-	[+]	5
BBMC0001-3	<i>Inter-academy thematic week</i> - COLLÉGIALITÉ - [1w SEM]	-	-	[+]	5
BBMC0001-4	<i>Inter-academy thematic week</i> - COLLÉGIALITÉ - [1w SEM]	-	-	[+]	5
BIOC0715-1	<i>Proteins structure and function</i> - Paulette CHARLIER, Mireille DUMOULIN	25	25	-	5
BIOC0716-1	<i>Antibiotic resistance</i> - Moreno GALLEN	25	25	-	5
BOTA0403-1	<i>Signal transduction pathways in plants</i> - Jacques DOMMES, Patrick MOTTE, Claire PÉRILLEUX	25	25	-	5
GENE0440-1	<i>Genetics and evolution</i> - Denis BAURAIN, Fabrice FRANCK, Claire REMACLE	25	25	-	5
MICR0713-1	<i>Extremophile microorganisms</i> - Georges FELLER, Moreno GALLEN, Annick WILMOTTE	25	25	-	5
BIOL0805-1	<i>Complements of developmental biology</i> - Marc MULLER, Bernard PEERS, Marianne VOZ	25	25	-	5
BIOL0806-1	<i>Cell Biology and visualization methods</i> - Patrick MOTTE, Marc THIRY	25	25	-	5
MICR0716-1	<i>Immunology - Virology</i> - Jacques PIETTE, Catherine SADZOT	25	25	-	5
MICR0715-1	<i>Applied Bacteriology</i> - Philippe THONART	25	25	-	5
INFO0090-1	<i>Analysis of data from the broadband technology</i> - Denis BAURAIN	25	25	-	5

*Notice* : The courses 'Protein Structures and Functions', 'Antibiotic Resistance', 'Signalling paths in plants', 'Extremophile Micro-organisms', 'Complementary themes on the biology of development', 'Cell biology and visualisation methods' and 'Immunology-Virology' and "Analysis of data from the broadband technology" are offered in the framework of the inter-academy thematic week (mobility week).

### Compulsory courses

GENE0208-2	<i>Genomics and bioinformatics</i> - Michel GEORGES, Bernard JORIS	25	-	-	<b>3</b>
SSTG0010-1	<i>Additional placements and practical work</i> - COLLÉGIALITÉ - [6w Internship]	-	-	[+]	<b>8</b>
BBMC0020-1	<i>Final thesis (complement)</i> - COLLÉGIALITÉ	-	-	-	<b>4</b>

**Optional courses**

Choose 3 course different to the option courses chosen in the 2 year, amongst :

BBMC0001-1	<i>Inter-academy thematic week</i> - COLLÉGIALITÉ - [1w SEM]	-	-	[+]	<b>5</b>
BBMC0001-2	<i>Inter-academy thematic week</i> - COLLÉGIALITÉ - [1w SEM]	-	-	[+]	<b>5</b>
BBMC0001-3	<i>Inter-academy thematic week</i> - COLLÉGIALITÉ - [1w SEM]	-	-	[+]	<b>5</b>
BBMC0001-4	<i>Inter-academy thematic week</i> - COLLÉGIALITÉ - [1w SEM]	-	-	[+]	<b>5</b>
BIOC0715-1	<i>Proteins structure and function</i> - Paulette CHARLIER, Mireille DUMOULIN	25	25	-	<b>5</b>
BIOC0716-1	<i>Antibiotic resistance</i> - Moreno GALLEN	25	25	-	<b>5</b>
BOTA0403-1	<i>Signal transduction pathways in plants</i> - Jacques DOMMES, Patrick MOTTE, Claire PÉRILLEUX	25	25	-	<b>5</b>
GENE0440-1	<i>Genetics and evolution</i> - Denis BAURAIN, Fabrice FRANCK, Claire REMACLE	25	25	-	<b>5</b>
MICR0713-1	<i>Extremophile microorganisms</i> - Georges FELLER, Moreno GALLEN, Annick WILMOTTE	25	25	-	<b>5</b>
BIOL0805-1	<i>Complements of developmental biology</i> - Marc MULLER, Bernard PEERS, Marianne VOZ	25	25	-	<b>5</b>
BIOL0806-1	<i>Cell Biology and visualization methods</i> - Patrick MOTTE, Marc THIRY	25	25	-	<b>5</b>
MICR0716-1	<i>Immunology - Virology</i> - Jacques PIETTE, Catherine SADZOT	25	25	-	<b>5</b>
MICR0715-1	<i>Applied Bacteriology</i> - Philippe THONART	25	25	-	<b>5</b>
INFO0090-1	<i>Analysis of data from the broadband technology</i> - Denis BAURAIN	25	25	-	<b>5</b>

*Notice : The courses 'Protein Structures and Functions', 'Antibiotic Resistance', 'Signalling paths in plants', 'Extremophile Micro-organisms', 'Complementary themes on the biology of development', 'Cell biology and visualisation methods' and 'Immunology-Virology' and 'Analysis of data from the broadband technology' are offered in the framework of the inter-academy thematic week (mobility week).*