

## 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> - Franck DEQUIEDT - [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
GENE0432-4	<i>Genetic and biochemical aspects of evolution</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, Claire REMACLE	15	-	-	2

CHIM0059-6	ILMOTTE <i>Industrial Microbiology</i> - Philippe THONART	20	-	-	2
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## Second Year

### Compulsory courses

SMEM0019-1	<i>Final thesis</i> - COLLÉGIALITÉ	-	-	-	25
BIOL0016-2	<i>Introduction to intellectual property and quality insurance</i> - Nicole ANTHEUNIS, Jacques DOMMES - [15h Mon. WS]	15	-	[+]	3
BIOC0717-2	<i>Applied Bioinformatics</i> - Bernard JORIS	20	-	-	2

### Compulsory courses

INFO0097-2	<i>Introduction to linux programming</i> - Denis BAURAIN - [60h Mon. WS]	40	-	[+]	10
INFO0098-2	<i>Introduction to the modeling of biological systems</i> - Eric BULLINGER - [25h Mon. WS]	25	-	[+]	5
INFO0099-2	<i>Introduction to databases for biology</i> - Denis BAURAIN - [30h Mon. WS]	20	-	[+]	5
INFO0094-3	<i>Introduction to algorithms in bioinformatics</i> - Denis BAURAIN, Patrick MEYER - [30h Mon. WS]	20	-	[+]	5
INFO0115-2	<i>Introduction to the analysis of biological data</i> - Damien SIRJACOBS - [30h Mon. WS]	20	-	[+]	5