

## First Year

First semester

### Compulsory courses

BIOL2010-1	<i>Cellular biology</i> - Daniel PORTETELLE	24	-	-	<b>2,5</b>
ENVT0044-1	<i>Current environmental issues : project</i> - Catherine COLAUX	30	-	-	<b>2,5</b>

All year round

### Compulsory courses

BOTA0002-1	<i>Botanics</i>				<b>11</b>
	- <i>Botanical systems</i> - Patrick DU JARDIN	4	17,5	-	
	- <i>Organisation of seeded plants</i> - Patrick DU JARDIN	22	20	-	
	- <i>Plant diversity and evolution</i> - Patrick DU JARDIN	16	17,5	-	
	- <i>Initiation to the study of plant life</i> - Patrick DU JARDIN - [9h FT]	4	1	[+]	
CHIM0690-1	<i>General chemistry</i>				<b>11</b>
	- <i>Chemistry of equilibria</i> - Georges LOGNAY - [10h AUTR]	19	21	[+]	
	- <i>General chemistry</i> - MarieLaure FAUCONNIER	-	-	-	
MATH0068-1	<i>General mathematics, part 1</i>				<b>11</b>
	- <i>Algebra and geometry</i> - Catherine CHARLES	20	30	-	
	- <i>Analysis 1 : differential calculus</i> - Catherine CHARLES	20	18	-	
	- <i>Analysis 2 : integral calculus</i> - Catherine CHARLES	14	18	-	
PHYS0097-1	<i>General physics</i>				<b>11</b>
	- <i>Mechanics of material points</i> - Marc AUBINET	21	24	-	
	- <i>Mechanics of solids and fluids</i> - Marc AUBINET	20	27	-	
	- <i>Thermodynamics</i> - Marc AUBINET	12	15	-	
ZOOL0005-1	<i>Zoology</i>				<b>11</b>
	- <i>Basic concepts of zoology</i> - Eric HAUBRUGE	22	-	-	
	- <i>Biological evolution</i> - Eric HAUBRUGE	-	28	-	
	- <i>Biodiversity and the animal kingdom</i> - Eric HAUBRUGE	38	-	-	
	- <i>Ethology</i> - François VERHEGGEN	-	10	-	
	- <i>Entomology</i> - Eric HAUBRUGE	-	24	-	

## Second Year

First semester

### Compulsory courses

CHIM9255-2	<i>Organic Chemistry</i> - MarieLaure FAUCONNIER	-	-	-	<b>4</b>
ELEC0438-1	<i>Electricity</i> - Marc AUBINET	24	36	-	<b>5</b>
INFO2037-1	<i>Introduction to computer science</i> - JeanJacques CLAUSTRIAUX	6	18	-	<b>2</b>
MATH0485-3	<i>General mathematics, second part</i> - Catherine CHARLES	18	18	-	<b>3</b>
MECA0490-1	<i>Engineering mechanics</i> - MarieFrance DESTAIN	18	18	-	<b>3</b>
SOCI2233-1	<i>Sociology</i> - Daniel BODSON	24	-	-	<b>2</b>

Second semester

### Compulsory courses

BIOL2011-1	<i>Comparative animal anatomy and physiology</i> - Robert RENAVILLE	38	10	-	<b>4</b>
CHIM9238-2	<i>Analytical chemistry</i> - Georges LOGNAY	18	30	-	<b>4</b>
CHIM9239-2	<i>Biological molecules chemistry</i> - Michel PAQUOT, Bernard WATHELET - Suppl : Bernard WATHELET	48	-	-	<b>4</b>
ECON2244-1	<i>Political and social economics</i> - Philippe LEBAILLY	48	12	-	<b>5</b>
BIOL2012-1	<i>Plant physiology</i> - Patrick DU JARDIN	32	16	-	<b>4</b>
PHYS3008-3	<i>Environmental physics</i> - Marc AUBINET	12	12	-	<b>2</b>

All year round

### Compulsory courses

LANG0906-3	<i>English language, part 1</i> - Sophie DEPOTERRE	-	48	-	<b>4</b>
GEOP0001-1	<i>Earth sciences</i> - Laurent BOCK - [6h FT]	74	28	[+]	<b>9</b>
STAT1206-1	<i>Fundamental statistics</i> - Rodolphe PALM	30	30	-	<b>5</b>

## Third Year

### Common core courses

#### Semester 1

BIOL2013-2	<i>General microbiology, 1st part</i> - Micheline VANDENBOL	16	8	-	2
INGE0002-1	<i>Refrigeration and drying, part 1</i> - François BERA	20	4	-	2
INFO2038-1	<i>Computer science and algorithmic</i> - Yves BROSTAUX	6	18	-	2

#### Semester 2

DOCU0449-2	<i>Scientific literature and information literacy</i> - Bernard POCHE	4	6	-	2
BIOL2016-3	<i>Principles of genetics</i> - JeanPierre BAUDOIN	24	12	-	3
GEST3028-1	<i>Accounting and management</i> - Thomas DOGOT, Philippe LEBAILLY	48	-	-	4

#### All year round

LANG0906-2	<i>English language, part 2</i> - Estelle MAYARD	16	32	-	4
STAT1207-1	<i>Applied statistics</i> - JeanJacques CLAUSTRIAUX	30	30	-	5
MANA0002-3	<i>Team, organization and change</i> - JeanFrançois LEROY - [44h SEM]	4	-	[+]	4

### Optional courses

#### Choose one field from amongst :

#### Agronomical sciences

##### Semester 1

AGRO0001-1	<i>Compared agriculture</i> - Bernard BODSON, Guy MERGEAI - [2h FT]	34	-	[+]	3
BIOL2013-3	<i>General microbiology, 2nd part</i> - Micheline VANDENBOL	16	8	-	2
DROI0966-1	<i>Law</i> - Didier PIRE	24	-	-	2
FORE0001-2	<i>Forests and forest ecosystems</i> - Hugues CLAESSENS, JeanLouis DOUCET	24	-	-	2
GEOP0002-1	<i>Pedology</i> - Laurent BOCK - [6h FT]	42	-	[+]	4
HYDR0001-1	<i>General Hydrology</i> - Aurore DEGRÉ	24	-	-	2

##### Semester 2

AGRO0002-1	<i>Fertilizers and soil amendments</i> - JeanPierre DESTAIN	24	-	-	2
BIAA0001-1	<i>Techniques of food preparation and preservation</i> - Christophe BLECKER	24	-	-	2
BIAA0002-1	<i>Agro-food industry</i> - Marianne SINDIC	24	-	-	2
BIOL2015-3	<i>Molecular biology</i> - Luc WILLEMS	36	-	-	3
BIOL2018-1	<i>Human and animal nutritions</i> - André THEWIS	24	-	-	2
ENVT2044-1	<i>General ecology</i> - Grégory MAHY, Arnaud MONTY	28	20	-	4
SPRA0001-1	<i>Animal production</i> - André THEWIS	24	-	-	2

#### Chemistry and bioindustry

##### Semester 1

BIAA0003-1	<i>Food and agro-food engineering, 1st part</i> - Philippe THONART	24	24	-	4
BIOL2017-5	<i>Biological chemistry</i> - Michel PAQUOT	12	12	-	2
BIOL2013-3	<i>General microbiology, 2nd part</i> - Micheline VANDENBOL	16	8	-	2
INGE0001-2	<i>Strength of materials and elasticity</i> - Pierre LATTEUR	36	-	-	2

##### Semester 2

BIAA0001-1	<i>Techniques of food preparation and preservation</i> - Christophe BLECKER	24	-	-	2
BIOL2015-3	<i>Molecular biology</i> - Luc WILLEMS	36	-	-	3
CHIM9241-1	<i>Purification and concentration techniques</i> - Jacqueline DESTAIN	24	-	-	2
INGE0002-3	<i>Refrigeration and drying, part 2</i> - François BERA	-	24	-	2

#### All year round

BIOL2019-1	<i>Theoretical and physical chemistry applied to structural analysis of biomolecules</i> - Bernard WATHELET	36	48	-	7
CHIM9242-4	<i>Fundamentals of quantitative analytical chemistry</i> - Georges LOGNAY	18	54	-	6

#### Environmental sciences and technologies

##### Semester 1

AGRO0001-1	<i>Compared agriculture</i> - Bernard BODSON, Guy MERGEAI - [2h FT]	34	-	[+]	3
DROI0966-1	<i>Law</i> - Didier PIRE	24	-	-	2

FORE0001-2	<i>Forests and forest ecosystems</i> - Hugues CLAESSENS, JeanLouis DOUCET	24	-	-	2
GEOP0002-1	<i>Pedology</i> - Laurent BOCK - [6h FT]	42	-	[+]	4
HYDR0001-1	<i>General Hydrology</i> - Aurore DEGRÉ	24	-	-	2
INGE0001-2	<i>Strength of materials and elasticity</i> - Pierre LATTEUR	36	-	-	3
<b>Semester 2</b>					
ENVT2044-1	<i>General ecology</i> - Grégory MAHY, Arnaud MONTY	28	20	-	4
HYDR0002-1	<i>Water flow in soils</i> - Aurore DEGRÉ	24	-	-	2
INGE0004-2	<i>Construction processes</i> - Pierre LATTEUR	48	-	-	4
INGE0005-2	<i>Kinematics and dynamics of machines</i> - MarieFrance DESTAIN	12	12	-	2
INGE0006-2	<i>Systems Dynamics</i> - MarieFrance DESTAIN	12	12	-	2
PHYS3010-2	<i>Introduction to Bioclimatology</i> - Marc AUBINET	24	-	-	2

#### Management of forests and natural areas

##### Semester 1

AGRO0001-1	<i>Compared agriculture</i> - Bernard BODSON, Guy MERGEAI - [2h FT]	34	-	[+]	3
DROI0966-1	<i>Law</i> - Didier PIRE	24	-	-	2
FORE0001-2	<i>Forests and forest ecosystems</i> - Hugues CLAESSENS, JeanLouis DOUCET	24	-	-	2
GEOP0002-1	<i>Pedology</i> - Laurent BOCK - [6h FT]	42	-	[+]	4
HYDR0001-1	<i>General Hydrology</i> - Aurore DEGRÉ	24	-	-	2
INGE0001-2	<i>Strength of materials and elasticity</i> - Pierre LATTEUR	36	-	-	2

##### Semester 2

BIOL2015-3	<i>Molecular biology</i> - Luc WILLEMS	36	-	-	3
ENVT2044-1	<i>General ecology</i> - Grégory MAHY, Arnaud MONTY	28	20	-	4
FORE0021-2	<i>Tree species in temperate regions</i> - Arnaud MONTY	12	12	-	2
FORE0022-3	<i>Ecological foundations of the silviculture</i> - Hugues CLAESSENS - [12h FT Tr. Pr.]	12	-	[+]	2
PAYS0006-2	<i>Landscape ecology concepts</i> - Jan BOGAERT	12	12	-	2
PHYS3010-2	<i>Introduction to Bioclimatology</i> - Marc AUBINET	24	-	-	2
SPRA0001-1	<i>Animal production</i> - André THEWIS	24	-	-	2