

Block view of the study programme

Or Th Pr Au Cr

Block 1
Compulsory courses
Periods 3 and 4
GFEN1.30 Core curriculum Q2

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|------------|---|----|---|----|-----|---|
| MANA0004-1 | <i>Portfolio (Master)</i> - Yves BECKERS, Hugues CLAESSENS, Gilles COLINET, Aurore DEGRÉ, Marianne SINDIC - [24h AUTR] | Q2 | - | - | [+] | 2 |
| LANG2959-1 | <i>Practice of specialized English for forests and natural areas : part 1 (level B2+)</i> - Sophie DEPOTERRE, Estelle MAYARD - Suppl : Annabel FOREST, Fiona THEWISSEN - [36h AUTR] Corequisite : FORE0008-2 - Analyse et valorisation stationnelles BIOD0007-1 - Méthodes d'analyse de la biodiversité FORE0025-1 - Expertise sylvicole FORE0010-1 - Science du bois | TA | - | 12 | [+] | 4 |

Period 3
GFEN1.31 Economics and environmental law

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|------------|--|----|----|---|-----|---|
| DROI0969-1 | <i>Forestry law and environmental law</i> - Etienne ORBAN DE XIVRY | Q2 | 24 | - | - | 2 |
| ECON2255-4 | <i>Forest and natural resources economics</i> - Gauthier LIGOT | Q2 | 9 | 9 | - | 2 |
| FORE0012-1 | <i>Forest products supply chain</i> - Tom DE MIL - [3h SEM] | Q2 | 9 | 6 | [+] | 2 |

GFEN1.32 Basic Forest Management Principles

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|------------|--|----|----|----|-----|---|
| FORE0009-1 | <i>Sustainable management of tropical forests</i> - JeanLouis DOUCET | Q2 | 36 | - | - | 3 |
| FORE0005-3 | <i>Multifunctional management of forests</i> - Philippe LEJEUNE - [4h SEM] Corequisite : ENVT0045-1 - Géomatique et télédétection appliquée FORE0004-3 - Dendrométrie et inventaires | Q2 | 7 | 16 | [+] | 3 |

Period 4
GFEN1.41 Forestry

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|------------|--|----|----|----|-----|---|
| FORE0008-2 | <i>Site analysis and valuation</i> - Hugues CLAESSENS - [15h FT] Corequisite : LANG2959-1 - Pratique de l'anglais de spécialité en Gestion des Forêts et des Espaces naturels : partie 1 (niveau B2+) | Q2 | 6 | 12 | [+] | 3 |
| FORE0025-1 | <i>Expertise in silviculture</i> - Hugues CLAESSENS, Marc DUFRÈNE, Gauthier LIGOT - [16h FT] Corequisite : BIOD0001-3 - Gestion de la biodiversité FORE0008-2 - Analyse et valorisation stationnelles FORE0004-3 - Dendrométrie et inventaires ENVT3050-1 - Quantification des services écosystémiques LANG2959-1 - Pratique de l'anglais de spécialité en Gestion des Forêts et des Espaces naturels : partie 1 (niveau B2+) | Q2 | 10 | 1 | [+] | 3 |

GFEN1.42 Management of natural ecosystems and landscapes

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|------------|---|----|----|---|-----|---|
| FORE0018-3 | <i>Management of large fauna in temperate climate</i> - Alain LICOPPE - [7h FT] | Q2 | 14 | - | [+] | 2 |
| PAYS0001-2 | <i>Ecological networks</i> - Marc DUFRÈNE, Grégory MAHY - [10h FT] Corequisite : BIOD0001-3 - Gestion de la biodiversité | Q2 | 6 | 2 | [+] | 2 |
| FORE0003-2 | <i>Participatory management of natural environments</i> - Cédric VERMEULEN - [9h AUTR] | Q2 | 9 | 3 | [+] | 2 |

Corequisite :

BIOD0001-3 - Gestion de la biodiversité

Optional courses

Single focus

Professional Focus

Period 1

GFEN1.11 Inventory and biodiversity management

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|------------|--|----|----|---|-----|---|
| ENVT3050-1 | <i>Quantification of ecosystem services</i> - Marc DUFRÈNE - [6h AUTR] | Q1 | 9 | 5 | [+] | 2 |
| ECON2248-1 | <i>Environmental economy</i> - Kevin MARÉCHAL | Q1 | 18 | - | - | 2 |
| BIOD0001-3 | <i>Biodiversity management</i> - Arnaud MONTY - [6h SEM] | Q1 | 18 | - | [+] | 2 |

GFEN1.12 Quantification of the natural resources

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|------------|--|----|----|----|-----|---|
| FORE0004-3 | <i>Forest mensuration and forest inventory</i> - Adeline FAYOLLE, Gauthier LIGOT - [3h FT] | Q1 | 15 | 18 | [+] | 4 |
| PAYS0007-2 | <i>Introduction to landscape analysis and modeling</i> - JeanFrançois BASTIN | Q1 | 8 | 8 | - | 2 |

Period 2

GFEN1.21 Biodiversity analysis methods

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|------------|--|----|----|----|-----|---|
| BIOD0007-1 | <i>Biodiversity analysis methods</i> | Q1 | | | | 6 |
| | - <i>Community</i> - Adeline FAYOLLE - [8h AUTR] | | 12 | 12 | [+] | |
| | - <i>Populations</i> - Arnaud MONTY | | 15 | 9 | - | |

Corequisite :

LANG2959-1 - Pratique de l'anglais de spécialité en Gestion des Forêts et des Espaces naturels : partie 1 (niveau B2+)

BIOD0001-3 - Gestion de la biodiversité

GFEN1.22 Geomatics applied to environmental management

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|------------|---|----|----|----|---|---|
| ENVT0045-1 | <i>Geomatics and applied remote sensing</i> - JeanFrançois BASTIN, Philippe LEJEUNE | Q1 | 24 | 33 | - | 6 |
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GFEN1.23 Wood

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|------------|---|----|----|----|-----|---|
| FORE0010-1 | <i>Wood science (english language)</i> - Tom DE MIL - [9h SEM, 2h FT] | Q1 | 18 | 7 | [+] | 4 |
| FORE0036-1 | <i>Timber anatomy and identification</i> - Benoît JOUREZ | Q1 | 10 | 10 | - | 2 |

Optional activities

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|------------|---|----|---|---|---|---|
| RSTG0011-1 | <i>Additional internship</i> - N... | TA | - | - | - | 5 |
| HULG9547-1 | <i>French course for IN mobility students (S1)</i> - N... | Q1 | - | - | - | 3 |
| HULG9548-1 | <i>French course for IN mobility students (S2)</i> - N... | Q2 | - | - | - | 3 |
| HULG9546-1 | <i>Erasmus: integration weeks</i> - N... | Q1 | - | - | - | 3 |

Block 2

Compulsory courses

Periods 1 and 2

GFEN2.10 Group Project

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|------------|---|----|---|---|-----|---|
| FORE0028-1 | <i>Group project</i> - JeanLouis DOUCET, Adeline FAYOLLE - [54h AUTR] | Q1 | - | - | [+] | 6 |
|------------|---|----|---|---|-----|---|

Prerequisite :

FORE0004-3 - Dendrométrie et inventaires

BIOD0007-1 - Méthodes d'analyse de la biodiversité

Periods 3 and 4

GFEN2.31 Final work and internship

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|------------|---|----|----|---|---|----|
| RTFE2009-1 | <i>Thesis in forest and natural areas management</i> - Arnaud MONTY | Q2 | - | - | - | 24 |
| RSTG0004-1 | <i>Internship and professional relations</i> - Hugues CLAESSENS, Catherine COLAUX, Thomas DOGOT, Didier VAN CAILLIE | TA | 12 | - | - | 8 |

Optional courses

Choose 3 modules from the elective courses :

Period 1

GFEN2.11 Ecological engineering

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|------------|---|----|----|----|-----|---|
| PAYS0014-1 | <i>Ecological engineering</i> - Marc DUFRÊNE, Grégory MAHY - [23h FT] | Q1 | 19 | 15 | [+] | 6 |
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GFEN2.12 Forest Health

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|------------|---|----|----|---|-----|---|
| FORE0041-1 | <i>Forest health</i> - Hugues CLAESSENS, Frédéric FRANCIS, Sébastien MASSART - [10h FT] | Q1 | 40 | 7 | [+] | 6 |
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GFEN2.13 Integrated management of wildlife

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|------------|---|----|---|---|-----|---|
| RAVT0003-1 | <i>Management of large fauna in tropical areas</i> - Cédric VERMEULEN - [4h SEM, 3h FT] | Q1 | 9 | 2 | [+] | 2 |
|------------|---|----|---|---|-----|---|

Prerequisite :

BIOD0001-3 - Gestion de la biodiversité
 ENVT0045-1 - Géomatique et télédétection appliquée
 FORE0018-3 - Gestion de la grande faune en milieu tempéré
 PAYS0001-2 - Réseaux écologiques
 FORE0003-2 - Gestion participative des milieux naturels

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|------------|--|----|---|---|---|---|
| RAVT0001-1 | <i>Wildlife population inventory and modelling techniques</i> - Philippe LEJEUNE | Q1 | 9 | 9 | - | 2 |
|------------|--|----|---|---|---|---|

Prerequisite :

BIOD0007-1 - Méthodes d'analyse de la biodiversité
 FORE0004-3 - Dendrométrie et inventaires
 ENVT0045-1 - Géomatique et télédétection appliquée

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|------------|---|----|---|---|-----|---|
| RAVT0002-1 | <i>Eco-ethology and wildlife conservation</i> - Fany BROTCORNE, Pascal PONCIN - [9h AUTR] | Q1 | 9 | - | [+] | 2 |
|------------|---|----|---|---|-----|---|

GFEN2.14 Applied forestry

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|------------|---|----|---|---|-----|---|
| FORE0032-1 | <i>Forestry itineraries</i> - Hugues CLAESSENS, Gauthier LIGOT - [30h FT] | Q1 | 6 | - | [+] | 4 |
|------------|---|----|---|---|-----|---|

Prerequisite :

ENVT3050-1 - Quantification des services écosystémiques
 DROI0969-1 - Droit forestier et droit de l'environnement
 ECON2255-4 - Economie du patrimoine forestier et naturel
 FORE0012-1 - Mobilisation des produits forestiers
 FORE0008-2 - Analyse et valorisation stationnelles
 FORE0025-1 - Expertise sylvicole

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| FORE0033-1 | <i>Forest genetic resources management</i> - Ludivine LASSOIS - [4h FT] | Q1 | 14 | - | [+] | 2 |
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GFEN2.15 Tropical forestry (Number of students limited - based on application file)

Notice : Module given abroad

| | | | | | | |
|------------|---|----|----|----|---|---|
| FORE0042-1 | <i>Tropical forestry</i> | Q1 | | | | 6 |
| | - <i>Tropical forests today</i> - JeanLouis DOUCET, Adeline FAYOLLE | | 6 | 18 | - | |
| | - <i>Tropical agroforestry</i> - JeanLouis DOUCET | | 12 | 12 | - | |
| | - <i>Applied tropical botany</i> - JeanLouis DOUCET | | 12 | 12 | - | |

Prerequisite :

FORE0009-1 - Gestion durable des forêts tropicales

Period 2

GFEN2.21 Wood development

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|------------|--|----|----|----|-----|---|
| FORE0015-2 | <i>Logging</i> - Tom DE MIL Prerequisite : ENVT0045-1 - Géomatique et télédétection appliquée FORE0025-1 - Expertise sylvicole | Q1 | 6 | 12 | - | 2 |
| FORE0043-1 | <i>Wood industries</i> - Tom DE MIL, Benoît JOUREZ - [24h FT] Prerequisite : FORE0036-1 - Anatomie et identification des bois FORE0010-1 - Science du bois | Q1 | 18 | - | [+] | 4 |

GFEN2.22 Aquatic environments management

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|------------|--|----|----|----|---|---|
| GESA0001-2 | <i>Chemical and physico-chemical analysis of waters</i> - Giorgia PURCARO | Q1 | 6 | 12 | - | 2 |
| FORE0017-1 | <i>Ecology of fresh water organisms</i> - <i>Ecology and dynamics of fresh water fish populations</i> - Michaël OVIDIO - <i>Aquatic macro-invertebrates and bioindications</i> - Rudy CAPARROS MEGIDO, Frédéric FRANCIS | Q1 | | | | 2 |
| | | | 10 | - | - | |
| | | | 9 | - | - | |
| VEGE0021-1 | <i>Animal communities and water quality</i> - Rudy CAPARROS MEGIDO, Frédéric FRANCIS | Q1 | 4 | 14 | - | 2 |

GFEN2.23 Plants and towns

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|------------|--|----|----|---|-----|---|
| PAYS0016-1 | <i>Plants and towns</i> - <i>Agriculture and towns</i> - Haissam JIJAKLI - [12h FT] - <i>Agriculture and towns: in depth</i> - Haissam JIJAKLI - [10h Mon. WS] Prerequisite : BIOD0001-3 - Gestion de la biodiversité | Q1 | | | | 3 |
| | | | 8 | - | [+] | |
| | | | - | - | [+] | |
| PAYS0017-1 | <i>Plants and towns</i> - <i>Biodiversity and towns</i> - Grégory MAHY - [11h Proj.] - <i>Biodiversity and towns: advanced</i> - Grégory MAHY Prerequisite : BIOD0001-3 - Gestion de la biodiversité | Q1 | | | | 3 |
| | | | 16 | - | [+] | |
| | | | 8 | - | - | |

GFEN 2.24 Very high-resolution remote sensing applied to the management of natural environments

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|------------|---|----|----|----|---|---|
| ENVT3060-1 | <i>Very high resolution remote sensing applied to the management of natural environments</i> - Philippe LEJEUNE Corequisite : ENVT0045-1 - Géomatique et télédétection appliquée | Q1 | 18 | 36 | - | 6 |
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Periods 1 and 2

GFEN 2.25 Data mining & Machine learning

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|------------|---|----|----|----|---|---|
| STAT1213-1 | <i>Multivariate analysis 1: data exploration and structuring</i> - Yves BROSTAUX | Q1 | 9 | 9 | - | 2 |
| INFO8008-1 | <i>Multivariate analysis 2: data mining and machine learning (english language)</i> - Yves BROSTAUX, Juan Antonio FERNANDEZ PIERNA, Hélène SOYEURT Corequisite : STAT1213-1 - Analyse multivariée 1 : exploration et structuration de données | Q1 | 12 | 26 | - | 4 |

Choose a language module from :

Periods 3 and 4

GFEN 2.31 English language

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|------------|--|----|---|----|-----|---|
| LANG2960-1 | <i>Practice of specialized English for forests and natural areas : part 2 (level C1 - Presentation)</i> - Sophie DEPOTERRE, Estelle MAYARD - Suppl : Fiona THEWISSEN - [36h AUTR] Corequisite : | TA | - | 12 | [+] | 4 |
|------------|--|----|---|----|-----|---|

FORE0028-1 - Projet de groupe

RTFE2009-1 - Travail de fin d'études en gestion des forêts et des espaces naturels

All year round

GFEN 2.32 Langue néerlandaise

LANG9914-1 *Dutch - intermediate* - Catherine PEETERS TA 18 18 - 4

GFEN 2.33 Spanish language

LANG9915-1 *Spanish - beginners* - Valérie COYETTE TA 18 18 - 4

Optional activity

INFO9013-1 *Multivariate analysis 3: Data mining et Machine Learning: advanced* (english language) - Yves BROSTAUX, David COLIGNON, Benoît MERCATORIS, Hélène SOYEURT Q2 12 28 - 4

Notice : INFO8001-1 prerequisite of the INFO9013-1 course

Bloc d'aménagement du programme de l'année

Additional ECTS Master in forests and natural areas engineering

Compulsory courses

GEST3028-2 *Accounting and management* Q1 4
 - *General accounting* - Thomas DOGOT, Philippe LEBAILLY 12 12 -
 - *Management, green accounting and business plan* - Thomas DOGOT, Philippe LEBAILLY 10 14 -

GEST3773-1 *Management of quality* - Mohamed AYADI, Sébastien MASSART - [6h AUTR] Q1 18 - [+] 2

STAT2004-1 *Applied statistics : First part* - Yves BROSTAUX Q1 12 12 - 2

STAT2005-1 *Applied statistic : Second part* - Yves BROSTAUX Q2 12 12 - 2

Corequisite :

STAT2004-1 - Statistique appliquée : 1ère partie

PSYC5897-3 *Team, organization and change* - Daniel FAULX, Véronique JANS, Tiber MANFREDINI - [44h SEM] TA 4 - [+] 2

Corequisite :

GEST3028-2 - Comptabilité et gestion des entreprises

GEST3773-1 - Gestion de la qualité

MANA0003-1 - Portfolio (Bachelier)

MANA0003-1 *Portfolio (Bachelor)* - Yves BECKERS, Hugues CLAESSENS, Gilles COLINET, Aurore DEGRÉ, Marianne SINDIC - [24h AUTR] TA - - [+] 2

Corequisite :

PSYC5897-3 - Equipe, organisation & changement

RSTG0008-1 *Internship (Bachelor)* - Hélène SOYEURT - [18h AUTR] TA 6 - [+] 2

Corequisite :

GEST3773-1 - Gestion de la qualité

GEST3028-2 - Comptabilité et gestion des entreprises

PSYC5897-3 - Equipe, organisation & changement

BIOL2044-1 *Plant physiology* - Patrick DU JARDIN Q1 27 9 - 3

BIOL2013-2 *General microbiology* - Patrick FICKERS, Philippe JACQUES Q1 16 8 - 2

ENVT2044-1 *General ecology* - Grégory MAHY, Arnaud MONTY Q1 24 - - 2

INFO2038-1 *Computer science and algorithmic* - Hélène SOYEURT Q1 2 22 - 2

MATH2016-1 *General mathematics and modelling of dynamics systems* - Q1 24 24 - 4

INDELLE, Catherine CHARLES, Frank DELVIGNE, Adeline FAYOLLE,
Benoît MERCATORIS

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|------------|---|----|----|----|-----|----------|
| PHYS3036-1 | <i>Environmental physics</i> - Bernard LONGDOZ | Q1 | 18 | 18 | - | 3 |
| LANG2966-2 | <i>English language: level 3</i> - Sophie DEPOTERRE, Estelle MAYARD, Fiona THEWISSEN - Suppl : Ivan DOSEN, Annabel FOREST - [48h E-Lrng] | TA | - | 24 | [+] | 4 |
| INGE0008-1 | <i>Multidisciplinary experimental project</i> - Yves BROSTAUX, Pierre DELAPLACE, Sébastien MASSART, Benoît MERCATORIS, Arnaud MONTY, Bernard POCHET - [60h AUTR] Corequisite : STAT2005-1 - Statistique appliquée : 2ème partie STAT2004-1 - Statistique appliquée : 1ère partie GEST3773-1 - Gestion de la qualité BIOL2044-1 - Physiologie végétale ENVT2044-1 - Ecologie générale | TA | 6 | 6 | [+] | 6 |

Option Forests and natural Areas Engineering

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|------------|--|----|----|----|-----|----------|
| AGRO0001-1 | <i>Basic principles of agriculture and agroecology</i> - Benjamin DUMONT , Ludivine LASSOIS - [4h FT] | Q2 | 20 | - | [+] | 2 |
| BIOL2015-3 | <i>Molecular biology</i> - Luc WILLEMS Corequisite : BIOL2016-3 - Génétique générale | Q2 | 24 | - | - | 2 |
| BIOL2016-3 | <i>General genetics</i> - Nicolas GENGLER, Ludivine LASSOIS Corequisite : BIOL2015-3 - Biologie moléculaire | Q2 | 12 | 12 | - | 2 |
| FORE0021-2 | <i>Tree species in temperate regions</i> - Arnaud MONTY | Q2 | 12 | 12 | - | 2 |
| FORE0022-3 | <i>Ecological foundations of the silviculture</i> - Hugues CLAESSENS - [12h AUTR] | Q2 | 12 | 2 | [+] | 2 |
| GEOP0002-2 | <i>Edaphology</i> - Aurore DEGRÉ | Q2 | 18 | 6 | - | 2 |
| INGE0001-4 | <i>Strength of materials and elasticity, Introduction</i> - Laurent DUCHENE | Q2 | 24 | - | - | 2 |
| PAYS0006-2 | <i>Landscape ecology concepts</i> - Jan BOGAERT | Q2 | 12 | 12 | - | 2 |
| PHYS3010-2 | <i>Bioclimatology basis</i> - Bernard LONGDOZ | Q2 | 24 | - | - | 2 |

Optional activity

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|------------|------------------------------|----|---|---|---|----------|
| RSTG0012-1 | <i>Additional internship</i> | TA | - | - | - | 5 |
|------------|------------------------------|----|---|---|---|----------|

Possibility (via the student affairs office) to choose between 2 and 6 ECTS among the following courses, replacing the B2 elective courses:

| | | | | | | | |
|------------|---|----|----|----|-----|----------|----------|
| GEOP0010-1 | <i>Soil quality evaluation</i> - Gilles COLINET | Q2 | 14 | 13 | - | 3 | |
| ENVT2049-2 | <i>Introduction to environmental assessment</i> - Angélique LÉONARD - [9h AUTR] | Q1 | 9 | - | [+] | 2 | |
| GERE0023-1 | <i>Spatial analysis, organisation of grounds in the landscape and preservation of grounds</i> - Gilles COLINET, Aurore DEGRÉ, Jeroen MEERSMANS - [8h FT] | Q2 | 23 | 23 | [+] | 6 | |
| VEGE0037-1 | <i>Innovative system of plant production</i> - <i>Urban agriculture</i> - Haissam JIJAKLI - <i>Developmental physiology applied to plant productions</i> - Pierre DELAPLACE - [6h FT] - <i>Physical parameters control of plant productions in controlled conditions</i> - Vincent LEEMANS | Q2 | | 13 | 13 | - | 6 |
| | | | | 12 | - | [+] | |
| | | | 9 | - | - | | |
| VEGE0028-1 | <i>Methods for managing plant health</i> - Frédéric FRANCIS, Olivier GUELTON, Eric HAUBRUGE, Haissam JIJAKLI, Ludivine LASSOIS, Sébastien MASSART, François VERHEGGEN | Q2 | 42 | 15 | - | 6 | |
| VEGE0036-1 | <i>Tropical agroecology</i> | Q2 | | | | 6 | |

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| | - <i>Introduction</i> - Ludivine LASSOIS - [20h FT] | | - | - | [+] | |
| | - <i>Depth notions</i> - Ludivine LASSOIS | | 16 | 21 | - | |
| CHIM9321-1 | <i>Immunology</i> - Benjamin G. DEWALS, Laurent GILLET, Alain VANDERPLASSCHEN, Hervé VANDERSCHUREN | Q1 | 33 | - | - | 4 |
| ALIM0015-1 | <i>Food sanitary safety</i> - Mohamed AYADI, Marianne SINDIC - [2h SEM] | Q1 | 16 | 6 | [+] | 2 |
| ALIM0013-2 | <i>Techniques of food preservation</i> - Christophe BLECKER | Q2 | 24 | - | - | 2 |
| BIOL2015-3 | <i>Molecular biology</i> - Luc WILLEMS | Q2 | 24 | - | - | 2 |