

Cycle view of the study programme

B1 Or Th Pr Au Cr

Compulsory courses (B1 : 30Cr, B2 : 38Cr)

Periods 3 and 4

GFEN1.30 Core curriculum Q2

MANA0004-1	<i>Portfolio (Master)</i> - Yves BECKERS, Hugues CLAESSENS, Gilles COLINET, Aurore DEGRÉ, Marianne SINDIC - [24h AUTR]	B1	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	B1	TA	-	12	[+]	4

Period 3

GFEN1.31 Economics and environmental law

DROI0969-1	<i>Forestry law and environmental law</i> - Etienne ORBAN DE XIVRY	B1	Q2	24	-	-	2
ECON2255-4	<i>Forest and natural resources economics</i> - Gauthier LIGOT	B1	Q2	9	9	-	2
FORE0012-1	<i>Forest products supply chain</i> - Tom DE MIL - [3h SEM]	B1	Q2	9	6	[+]	2

GFEN1.32 Basic Forest Management Principles

FORE0009-1	<i>Sustainable management of tropical forests</i> - JeanLouis DOUCET	B1	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	B1	Q2	7	16	[+]	3

Period 4

GFEN1.41 Forestry

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+)	B1	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+)	B1	Q2	10	1	[+]	3

GFEN1.42 Management of natural ecosystems and landscapes

FORE0018-3	<i>Management of large fauna in temperate climate</i> - Alain LICOPPE - [7h FT]	B1	Q2	14	-	[+]	2
PAYS0001-2	<i>Ecological networks</i> - Marc DUFRÈNE, Grégory MAHY - [10h FT] Corequisite : BIOD0001-3 - Gestion de la biodiversité	B1	Q2	6	2	[+]	2
FORE0003-2	<i>Participatory management of natural environments</i> - Cédric VERMEULEN - [9h AUTR]	B1	Q2	9	3	[+]	2

Corequisite :

BIOD0001-3 - Gestion de la biodiversité

Periods 1 and 2

GFEN2.10 Group Project

FORE0028-1 *Group project* - JeanLouis DOUCET, Adeline FAYOLLE - [54h AUTR] B2 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

RTFE2009-1 *Thesis in forest and natural areas management* - Arnaud MONTY B2 Q2 - - - 24

RSTG0004-1 *Internship and professional relations* - Hugues CLAESSENS, Catherine COLAUX, Thomas DOGOT, Didier VAN CAILLIE B2 TA 12 - - 8

Optional courses (B1 : 30Cr, B2 : 22Cr)

Single focus (B1 : 30Cr)

Professional Focus (B1 : 30Cr)

Period 1

GFEN1.11 Inventory and biodiversity management

ENV3050-1 *Quantification of ecosystem services* - Marc DUFRÈNE - [6h AUTR] B1 Q1 9 5 [+] 2

ECON2248-1 *Environmental economy* - Kevin MARÉCHAL B1 Q1 18 - - 2

BIOD0001-3 *Biodiversity management* - Arnaud MONTY - [6h SEM] B1 Q1 18 - [+] 2

GFEN1.12 Quantification of the natural resources

FORE0004-3 *Forest mensuration and forest inventory* - Adeline FAYOLLE, Gauthier LIGOT - [3h FT] B1 Q1 15 18 [+] 4

PAYS0007-2 *Introduction to landscape analysis and modeling* - JeanFrançois BASTIN B1 Q1 8 8 - 2

Period 2

GFEN1.21 Biodiversity analysis methods

BIOD0007-1 *Biodiversity analysis methods* B1 Q1 6
 - *Community* - Adeline FAYOLLE - [8h AUTR] 12 12 [+]
 - *Populations* - 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

ENV3045-1 *Geomatics and applied remote sensing* - JeanFrançois BASTIN, Philippe LEJEUNE B1 Q1 24 33 - 6

GFEN1.23 Wood

FORE0010-1 *Wood science (english language)* - Tom DE MIL - [9h SEM, 2h FT] B1 Q1 18 7 [+] 4

FORE0036-1 *Timber anatomy and identification* - Benoît JOUREZ B1 Q1 10 10 - 2

Choose 3 modules from the elective courses : (B2 : 3Nbr)

Period 1

GFEN2.11 Ecological engineering (B2 : 6Cr)

PAYS0014-1 *Ecological engineering* - Marc DUFRÊNE, Grégory MAHY - [23h FT] B2 Q1 19 15 [+] 6

GFEN2.12 Forest Health (B2 : 6Cr)

FORE0041-1 *Forest health* - Hugues CLAESSENS, Frédéric FRANCIS, Sébastien MASSART - [10h FT] B2 Q1 40 7 [+] 6

GFEN2.13 Integrated management of wildlife (B2 : 6Cr)

RAVT0003-1 *Management of large fauna in tropical areas* - Cédric VERMEULEN - [4h SEM, 3h FT] B2 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

RAVT0001-1 *Wildlife population inventory and modelling techniques* - Philippe LEJEUNE B2 Q1 9 9 - 2

Prerequisite :

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

RAVT0002-1 *Eco-ethology and wildlife conservation* - Fany BROTCORNE, Pascal PONCIN - [9h AUTR] B2 Q1 9 - [+] 2

GFEN2.14 Applied forestry (B2 : 6Cr)

FORE0032-1 *Forestry itineraries* - Hugues CLAESSENS, Gauthier LIGOT - [30h FT] B2 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

FORE0033-1 *Forest genetic resources management* - Ludivine LASSOIS - [4h FT] B2 Q1 14 - [+] 2

GFEN2.15 Tropical forestry (Number of students limited - based on application file) (B2 : 6Cr)

Notice : Module given abroad

FORE0042-1 *Tropical forestry* B2 Q1 6 18 - 6
- *Tropical forests today* - JeanLouis DOUCET, Adeline FAYOLLE 6 18 -
- *Tropical agroforestry* - JeanLouis DOUCET 12 12 -
- *Applied tropical botany* - JeanLouis DOUCET 12 12 -

Prerequisite :

FORE0009-1 - Gestion durable des forêts tropicales

Period 2

GFEN2.21 Wood development (B2 : 6Cr)

FORE0015-2 *Logging* - Tom DE MIL B2 Q1 6 12 - 2

Prerequisite :

ENVT0045-1 - Géomatique et télédétection appliquée
FORE0025-1 - Expertise sylvicole

FORE0043-1 *Wood industries* - Tom DE MIL, Benoît JOUREZ - [24h FT] B2 Q1 18 - [+] 4

Prerequisite :

FORE0036-1 - Anatomie et identification des bois

FORE0010-1 - Science du bois

GFEN2.22 Aquatic environments management (B2 : 6Cr)

GESA0001-2	<i>Chemical and physico-chemical analysis of waters</i> - Giorgia PURCARO	B2	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	B2	Q1	10	-	-	2
VEGE0021-1	<i>Animal communities and water quality</i> - Rudy CAPARROS MEGIDO, Frédéric FRANCIS	B2	Q1	4	14	-	2

GFEN2.23 Plants and towns (B2 : 6Cr)

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	B2	Q1	8	-	[+]	3
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	B2	Q1	16	-	[+]	3

GFEN 2.24 Very high-resolution remote sensing applied to the management of natural environments (B2 : 6Cr)

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	B2	Q1	18	36	-	6
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Periods 1 and 2

GFEN 2.25 Data mining & Machine learning (B2 : 6Cr)

STAT1213-1	<i>Multivariate analysis 1: data exploration and structuring</i> - Yves BROSTAU	B2	Q1	9	9	-	2
INFO8008-1	<i>Multivariate analysis 2: data mining and machine learning</i> (english language) - Yves BROSTAU, Juan Antonio FERNANDEZ PIERNA, Hélène SOYEURT Corequisite : STAT1213-1 - Analyse multivariée 1 : exploration et structuration de données	B2	Q1	12	26	-	4

Choose a language module from : (B2 : 4Cr)

Periods 3 and 4

GFEN 2.31 English language (B2 : 4Cr)

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 : FORE0028-1 - Projet de groupe RTFE2009-1 - Travail de fin d'études en gestion des forêts et des espaces naturels	B2	TA	-	12	[+]	4
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All year round

GFEN 2.32 Dutch language (B2 : 4Cr)

LANG9914-1 *Dutch - intermediate* - Catherine PEETERS B2 TA 18 18 - 4

GFEN 2.33 Spanish language (B2 : 4Cr)

LANG9915-1 *Spanish - beginners* - Valérie COYETTE B2 TA 18 18 - 4

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

GEP0010-1 *Soil quality evaluation* - Gilles COLINET B2 Q2 14 13 - 3

ENVT2049-2 *Introduction to environmental assessment* - Angélique LÉONARD - [9h AUTR] B2 Q1 9 - [+] 2

GERE0023-1 *Spatial analysis, organisation of grounds in the landscape and preservation of grounds* - Gilles COLINET, Aurore DEGRÉ, Jeroen MEERSMANS - [8h FT] B2 Q2 23 23 [+] 6

VEGE0037-1 *Innovative system of plant production* B2 Q2 6
 - *Urban agriculture* - Haissam JIJAKLI 13 13 -
 - *Developmental physiology applied to plant productions* - 12 - [+]
 Pierre DELAPLACE - [6h FT]
 - *Physical parameters control of plant productions in controlled conditions* - Vincent LEEMANS 9 - -

VEGE0028-1 *Methods for managing plant health* - Frédéric FRANCIS, Olivier GUELTON, Eric HAUBRUGE, Haissam JIJAKLI, Ludivine LASSOIS, Sébastien MASSART, François VERHEGGEN B2 Q2 42 15 - 6

VEGE0036-1 *Tropical agroecology* B2 Q2 6
 - *Introduction* - Ludivine LASSOIS - [20h FT] - - [+]
 - *Depth notions* - Ludivine LASSOIS 16 21 -

CHIM9321-1 *Immunology* - Benjamin G. DEWALS, Laurent GILLET, Alain VANDERPLASSCHEN, Hervé VANDERSCHUREN B2 Q1 33 - - 4

ALIM0015-1 *Food sanitary safety* - Mohamed AYADI, Marianne SINDIC - [2h SEM] B2 Q1 16 6 [+] 2

ALIM0013-2 *Techniques of food preservation* - Christophe BLECKER B2 Q2 24 - - 2

BIOL2015-3 *Molecular biology* - Luc WILLEMS B2 Q2 24 - - 2

Optional activities (B1 : 14Cr, B2 : 4Cr)

RSTG0011-1 *Additional internship* - N... B1 TA - - - 5

HULG9547-1 *French course for IN mobility students (S1)* - N... B1 Q1 - - - 3

HULG9548-1 *French course for IN mobility students (S2)* - N... B1 Q2 - - - 3

HULG9546-1 *Erasmus: integration weeks* - N... B1 Q1 - - - 3

INFO9013-1 *Multivariate analysis 3: Data mining et Machine Learning: advanced (english language)* - Yves BROSTAUX, David COLIGNON, Benoît MERCATORIS, Hélène SOYEURT B2 Q2 12 28 - 4

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

Additional ECTS Master in forests and natural areas engineering

Compulsory courses (B0 : 60Cr)

GEST3028-2 *Accounting and management* B0 Q1 4
 - *General accounting* - Thomas DOGOT, Philippe LEBAILLY 12 12 -
 - *Management, green accounting and business plan* - 10 14 -
 Thomas DOGOT, Philippe LEBAILLY

GEST3773-1 *Management of quality* - Mohamed AYADI, Sébastien MASSART - B0 Q1 18 - [+] 2

[6h AUTR]

STAT2004-1	<i>Applied statistics : First part</i> - Yves BROSTAUX	B0	Q1	12	12	-	2
STAT2005-1	<i>Applied statistic : Second part</i> - Yves BROSTAUX Corequisite : STAT2004-1 - Statistique appliquée : 1ère partie	B0	Q2	12	12	-	2
PSYC5897-3	<i>Team, organization and change</i> - Daniel FAULX, Véronique JANS, Tiber MANFREDINI - [44h SEM] Corequisite : GEST3028-2 - Comptabilité et gestion des entreprises GEST3773-1 - Gestion de la qualité MANA0003-1 - Portfolio (Bachelier)	B0	TA	4	-	[+]	2
MANA0003-1	<i>Portfolio (Bachelor)</i> - Yves BECKERS, Hugues CLAESSENS, Gilles COLINET, Aurore DEGRÉ, Marianne SINDIC - [24h AUTR] Corequisite : PSYC5897-3 - Equipe, organisation & changement	B0	TA	-	-	[+]	2
RSTG0008-1	<i>Internship (Bachelor)</i> - Hélène SOYEURT - [18h AUTR] Corequisite : GEST3773-1 - Gestion de la qualité GEST3028-2 - Comptabilité et gestion des entreprises PSYC5897-3 - Equipe, organisation & changement	B0	TA	6	-	[+]	2
BIOL2044-1	<i>Plant physiology</i> - Patrick DU JARDIN	B0	Q1	27	9	-	3
BIOL2013-2	<i>General microbiology</i> - Patrick FICKERS, Philippe JACQUES	B0	Q1	16	8	-	2
ENVT2044-1	<i>General ecology</i> - Grégory MAHY, Arnaud MONTY	B0	Q1	24	-	-	2
INFO2038-1	<i>Computer science and algorithmic</i> - Hélène SOYEURT	B0	Q1	2	22	-	2
MATH2016-1	<i>General mathematics and modelling of dynamics systems</i> - Jérôme BINDELLE, Catherine CHARLES, Frank DELVIGNE, Adeline FAYOLLE, Benoît MERCATORIS	B0	Q1	24	24	-	4
PHYS3036-1	<i>Environmental physics</i> - Bernard LONGDOZ	B0	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]	B0	TA	-	24	[+]	4
INGE0008-1	<i>Multidisciplinary experimental project</i> - Yves BROSTAUX, Pierre DELAPLACE, Sébastien MASSART, Benoît MERCATORIS, Arnaud MONTY, Bernard POCHE - [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	B0	TA	6	6	[+]	6

Option Forests and natural Areas Engineering

AGRO0001-1	<i>Basic principles of agriculture and agroecology</i> - Benjamin DUMONT, Ludivine LASSOIS - [4h FT]	B0	Q2	20	-	[+]	2
BIOL2015-3	<i>Molecular biology</i> - Luc WILLEMS Corequisite : BIOL2016-3 - Génétique générale	B0	Q2	24	-	-	2
BIOL2016-3	<i>General genetics</i> - Nicolas GENGLER, Ludivine LASSOIS Corequisite : BIOL2015-3 - Biologie moléculaire	B0	Q2	12	12	-	2
FORE0021-2	<i>Tree species in temperate regions</i> - Arnaud MONTY	B0	Q2	12	12	-	2
FORE0022-3	<i>Ecological foundations of the silviculture</i> - Hugues CLAESSENS - [12h AUTR]	B0	Q2	12	2	[+]	2

GEOP0002-2	<i>Edaphology</i> - Aurore DEGRÉ	B0	Q2	18	6	-	2
INGE0001-4	<i>Strength of materials and elasticity, Introduction</i> - Laurent DUCHENE	B0	Q2	24	-	-	2
PAYS0006-2	<i>Landscape ecology concepts</i> - Jan BOGAERT	B0	Q2	12	12	-	2
PHYS3010-2	<i>Bioclimatology basis</i> - Bernard LONGDOZ	B0	Q2	24	-	-	2
Optional activity (B0 : 5Cr)							
RSTG0012-1	<i>Additional internship</i>	B0	TA	-	-	-	5