

Cycle view of the study programme

B1 Or Th Pr Au Cr

Compulsory courses (B1 : 44Cr, B2 : 14Cr)

Periods 1 and 2

STE1.10 Core curriculum 1

GERE0015-1	<i>Group project</i> - COLLÉGIALITÉ, Aurore DEGRÉ - [60h AUTR]	B1	Q1	-	-	[+]	6
HYDR0012-1	<i>Fluid transport and distribution</i> (english language) - Sarah GARRÉ - Suppl : Eléonore BECKERS	B1	Q1	12	12	-	2
GEOPO003-2	<i>Pedogenesis, international referential of classification and soil hydrodynamics</i> - JeanThomas CORNELIS, Aurore DEGRÉ - [6h FT]	B1	Q1	36	30	[+]	6
STAT1213-1	<i>Multivariate statistical analysis</i> - Yves BROSTAUX	B1	Q1	12	12	-	2
GERE0019-1	<i>Grounds mechanic and geotechnology</i> - Robert CHARLIER, Frédéric COLLIN - [8h AUTR]	B1	Q1	24	20	[+]	4
INGE0004-2	<i>Construction processes</i> - Pierre LATTEUR - [4h FT]	B1	Q2	18	14	[+]	3

STE1.10 Core curriculum 2

MANA0004-1	<i>Portfolio (Master)</i> - Philippe LEPOIVRE - [24h AUTR]	B1	Q2	-	-	[+]	2
LANG2956-1	<i>Practice of specialized English in environment sciences and technologies : Part 1</i> - Sophie DEPOTERRE, Estelle MAYARD - Suppl : Gwendoline VANDENBORRE - [36h AUTR]	B1	Q2	-	12	[+]	4

Period 3

STE1.10 Core curriculum 3

GERE0037-1	<i>Modelling of transfers in biosystems</i> - Aurore DEGRÉ, Bernard LONGDOZ, Benoît MERCATORIS	B1	Q2	24	48	-	6
GEOPO010-1	<i>Soil quality evaluation</i> - Gilles COLINET	B1	Q2	18	18	-	3
GERE0038-1	<i>Energy systems and renewable energies</i> - Frédéric LEBEAU - [4h FT]	B1	Q2	32	12	[+]	4

Period 4

STE1.45 Field applications and visits

GERE0039-1	<i>Field applications and visits</i> - Gilles COLINET, COLLÉGIALITÉ - [23h FT]	B1	Q2	1	-	[+]	2
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STE2.31 Final dissertation, training programme and English

RSTG0003-1	<i>Internship and professional relations</i> - Michael GHILISSEN, Frédéric LEBEAU, Didier VAN CAILLIE	B2	TA	-	-	-	8
LANG2957-1	<i>Practice of specialized english in sciences and environmental technologies : part 2</i> - Sophie DEPOTERRE, Estelle MAYARD - Suppl : Gwendoline VANDENBORRE - [36h AUTR]	B2	Q2	-	12	[+]	4

Period 4

STE2. Environmental law

DROI1306-1	<i>Environmental law</i> - Martin LAUWERS, Renaud SMAL	B2	Q1	24	-	-	2
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Optional courses (B1 : 16Cr, B2 : 46Cr)

Single focus (B1 : 6Cr, B2 : 24Cr)

Professional Focus (B1 : 6Cr, B2 : 24Cr)

Period 1 and 2

STE1.10 Core curriculum 1

ENVT0045-1 *Geomatics and applied remote sensing* - Philippe LEJEUNE - [4h
AUTR] B1 Q1 24 44 [+] 6

Periods 3 and 4

STE2.31 Final dissertation, training programme and English

RTFE2002-1 *Final thesis* - N... B2 Q2 - - - 24

Choose one module totalling 6 credits from : (B1 : 1Nbr)

STE1.41 Spatial analysis, soil organisation in the landscape and soil conservation (B1 : 6Nbr)

GERE0023-1 *Spatial analysis, organisation of grounds in the landscape and
preservation of grounds* - Gilles COLINET, JeanThomas CORNELIS,
Aurore DEGRÉ, Youri ROTHFUSS - [12h FT] B1 Q2 30 30 [+] 6

Corequisite :

GEOP0003-2 - Pédogenèse, référentiels internationaux de classification et hydrodynamique des sols

STE1.42 Theory of structural calculations (B1 : 6Nbr)

GERE0021-1 *Theory of structural calculations* - Vincent DENOËL,
Laurent DUCHENE, JeanMarc FRANSSSEN - Suppl : Vincent DENOËL,
Laurent DUCHENE, JeanMarc FRANSSSEN B1 Q2 36 36 - 6

Choose one module totalling 4 credits from : (B1 : 1Nbr)

STE1.43 Irrigation (B1 : 4Cr)

HYDR0015-1 *Irrigation* - Sarah GARRÉ - [4h FT] B1 Q2 16 26 [+] 4

STE1.44 Rural engineering technologies (B1 : 4Cr)

GERE0024-1 *Mitigation of environmental impacts of agricultural practices* -
Frédéric LEBEAU B1 Q2 12 12 - 2

GERE0007-3 *Digital electronics* - Bernard HEINESCH B1 Q2 16 8 - 2

Periods 1 and 2

Choose courses totalling 4 ECTS from the following : (B2 : 4Cr)

STE 2.12 Environmental techniques

CHIM9248-1 *Basic principles of wastewater treatments* - Frank DELVIGNE B2 Q1 24 - - 2

GEST3020-1 *Conceiving and economic assessment of project : food crop and
agroforestry* - Baudouin MICHEL - [12h SEM] B2 Q1 12 - [+] 2

ENVT2053-1 *Physical aspects of waste management* - Luc MINNE - [6h FT] B2 Q1 18 - [+] 2

Choose one module totalling 6 credits from : (B2 : 1Nbr)

STE 2.13 Practical evaluation of grounds and water resources (B2 : 6Cr)

GERE0025-1 *Practical evaluation of grounds and water resources* -
Gilles COLINET, JeanThomas CORNELIS, Aurore DEGRÉ - [24h
AUTR] B2 Q1 24 24 [+] 6

Prerequisite :

GERE0023-1 - Analyse spatiale, organisation des sols dans le paysage et conservation des sols

GEOP0010-1 - Evaluation de la qualité des sols

STE2.14 Automation in agriculture (B2 : 6Cr)

GERE0026-1 *Automatic* - Benoît MERCATORIS - [8h AUTR] B2 Q1 8 8 [+] 2

GERE0027-1 *microcontrollers Base* - Bernard HEINESCH B2 Q1 4 20 - 2

Prerequisite :

GERE0007-3 - Electronique digitale

GERE0028-1 *Building physics and special techniques* - Frédéric LEBEAU - [4h B2 Q1 12 8 [+] 2

AUTR]

Choose one module totalling 6 credits from : (B2 : 1Nbr)

STE2.15 Environmental remediation (B2 : 6Cr)

ENVT2049-2	<i>Introduction to environmental assessment</i> - Angélique LÉONARD - [12h AUTR]	B2	Q1	12	-	[+]	2
ECON2248-1	<i>Environmental economy</i> - Kevin MARÉCHAL	B2	Q1	24	-	-	2
GERE0029-1	<i>Ground remediation</i> - Gilles COLINET - [10h FT]	B2	Q1	6	8	[+]	2

STE2.16 Precision agriculture (B2 : 6Cr)

GERE0030-1	<i>Image analysis</i> (english language) - Vincent LEEMANS	B2	Q1	12	12	-	2
GERE0031-1	<i>Support systems for decision</i> (english language) - Vincent LEEMANS - [8h AUTR]	B2	Q1	8	8	[+]	2
GERE0032-1	<i>Robotic applications</i> - Benoît MERCATORIS Prerequisite : GERE0026-1 - Automatique GERE0027-1 - Base des microcontrôleurs	B2	Q1	12	12	-	2

Choose one module totalling 6 credits from : (B2 : 1Nbr)

STE2.17 Controlled environment agriculture (B2 : 6Cr)

GERE0033-1	<i>Controlled environment agriculture</i> - Frédéric LEBEAU Prerequisite : GERE0038-1 - Systèmes énergétiques et énergies renouvelables Corequisite : GERE0026-1 - Automatique GERE0027-1 - Base des microcontrôleurs GERE0028-1 - Physique du bâtiment et techniques spéciales GERE0030-1 - Image analysis GERE0031-1 - Support systems for decision GERE0032-1 - Applications robotiques	B2	Q1	24	48	-	6
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STE2.18 Plants-ecosystem-climate relations (B2 : 6Cr)

GERE0034-1	<i>Plants - ecosystems - climate relationship</i> - Bernard HEINESCH, Bernard LONGDOZ - [6h AUTR]	B2	Q1	18	48	[+]	6
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STE2.19 Integrated project on hydrogeophysics (B2 : 6Cr)

GERE0035-1	<i>Integrated project on hydrogeophysics</i> (english language) - Sarah GARRÉ, Frédéric NGUYEN - Suppl : Eléonore BECKERS	B2	Q1	4	48	-	6
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Additional ECTS Master in environmental bioengineering

Compulsory courses (B0 : 58Cr)

INGE0008-1	<i>Multidisciplinary experimental project</i> - Yves BROSTAUX, Pierre DELAPLACE, Patrick DU JARDIN, 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
GEST3028-2	<i>Accounting and management</i> - Thomas DOGOT, Philippe LEBAILLY	B0	Q1	24	24	-	4

GEST3773-1	<i>Management of quality</i> - Sébastien MASSART, Marianne SINDIC - [6h AUTR]	B0	Q1	18	-	[+]	2
	Corequisite : PSYC5897-3 - Equipe, organisation & changement						
STAT2004-1	<i>Applied statistics : First part</i> - Yves BROSTAUX	B0	Q1	12	12	-	2
	Corequisite : STAT2005-1 - Statistique appliquée : 2ème partie						
STAT2005-1	<i>Applied statistic : Second part</i> - Yves BROSTAUX	B0	Q2	12	12	-	2
	Corequisite : STAT2004-1 - Statistique appliquée : 1ère partie						
LANG2966-2	<i>English language : level 3</i> - Sophie DEPOTERRE, Fiona THEWISSEN - [48h E-Lrng]	B0	TA	-	24	[+]	4
PSYC5897-3	<i>Team, organization and change</i> - JeanFrançois LEROY - [44h SEM]	B0	TA	4	-	[+]	2
	Corequisite : GEST3028-1 - Comptabilité et gestion des entreprises GEST3773-1 - Gestion de la qualité MANA0003-1 - Portfolio (Bachelier) RSTG0008-1 - Stage (Bachelier)						
MANA0003-1	<i>Portfolio (Bachelor)</i> - Philippe LEPOIVRE - [24h AUTR]	B0	TA	-	-	[+]	2
	Corequisite : GEST3773-1 - Gestion de la qualité PSYC5897-3 - Equipe, organisation & changement RSTG0008-1 - Stage (Bachelier)						
RSTG0008-1	<i>Internship (Bachelor)</i> - Philippe LEPOIVRE - [24h AUTR]	B0	TA	-	-	[+]	2
	Corequisite : GEST3773-1 - Gestion de la qualité GEST3028-2 - Comptabilité et gestion des entreprises MANA0003-1 - Portfolio (Bachelier) PSYC5897-3 - Equipe, organisation & changement						
BIOL2044-1	<i>Plant physiology</i> - Patrick DU JARDIN	B0	Q1	27	9	-	3
BIOL2013-2	<i>General microbiology</i> - Micheline VANDENBOL	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	12	12	-	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>Environment Physics</i> - Bernard LONGDOZ	B0	Q1	12	24	-	3
GEOP0002-1	<i>Edaphology</i> - Aurore DEGRÉ, Sarah GARRÉ	B0	Q2	26	10	-	3
GERE0036-1	<i>Environmental metrology</i> - Benoît MERCATORIS	B0	Q2	24	24	-	4
	Corequisite : MATH2016-1 - Mathématique générale et modélisation des systèmes dynamiques						
HYDR0001-1	<i>General Hydrology</i> - Aurore DEGRÉ	B0	Q2	20	4	-	2
	Prerequisite : GEOP0009-1 - Science du sol						
HYDR0007-3	<i>Fluid mechanics</i> - Michel PIROTTON	B0	Q2	14	10	-	2
INGE0001-2	<i>Strength of materials and elasticity</i> - Pierre LATTEUR	B0	Q2	36	-	-	3
PHYS3010-2	<i>Bioclimatology basis</i> - Bernard LONGDOZ	B0	Q2	24	-	-	2

Option cours (B0 : 2Cr)

Choose 1 course from Environmental sciences and technologies subject : (B0 : 1Nbr)

AGRO0001-1	<i>Foundation of agriculture</i> - Bernard BODSON, Guy MERGEAI - [4h FT]	B0	Q2	20	-	[+]	2
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