

## First Year

First semester

Teaching Period One and Two

### Compulsory courses

#### STE1.10 Core curriculum 1 STE

GERE0015-1	<i>Group project</i> - Marc AUBINET, COLLÉGIALITÉ - [60h AUTR]	Q1	-	-	[+]	5
HYDR0012-1	<i>Transmission and distribution of fluid</i> - Sarah GARRÉ	Q1	12	12	-	2
ENVT0045-1	<i>Geomatics and applied remote sensing</i> - Philippe LEJEUNE	Q1	28	44	-	5
GEOP0003-2	<i>Pedogenesis, international referential of classification and soil hydrodynamics</i> - Gilles COLINET, JeanThomas CORNELIS, Aurore DEGRÉ	Q1	36	36	-	6
STAT1213-1	<i>Multivariate statistical analysis</i> - Yves BROSTAUX	Q1	12	12	-	2
GERE0019-1	<i>Soil mechanics and geotechnics</i> - Robert CHARLIER, Frédéric COLLIN	Q1	24	24	-	4
GERE0020-1	<i>Environmental metrology</i> - Benoît MERCATORIS	Q1	24	24	-	4

Second semester

Period 3

### Compulsory courses

#### STE1.31 Core curriculum 2

GERE0022-1	<i>Ecotechnologies</i> - MarieFrance DESTAIN	Q2	24	24	-	4
GEOP0010-1	<i>Soil quality evaluation</i> - Gilles COLINET, Aurore DEGRÉ, Sarah GARRÉ	Q2	18	18	-	3
HYDR0013-1	<i>Modelling of transfers in soils</i> - Gilles COLINET, Aurore DEGRÉ, Benoît MERCATORIS	Q2	24	24	-	4
PHYS3009-3	<i>Exchange Models in biosystems</i> - Marc AUBINET	Q2	-	24	-	2

Period 4

### Compulsory courses

#### STE1.41 Placement

MANA0004-1	<i>Portfolio (Master 1)</i> - Philippe LEPOIVRE	TA	-	-	-	2
RSTG0003-1	<i>Internship and professional relations</i> - Frédéric LEBEAU, Philippe LEPOIVRE	Q2	-	-	-	3

Period 5

### Optional courses

Choose one module from :

#### STE1.51 Spatial analysis, soil organisation in the landscape and soil conservation

GERE0023-1	<i>Spatial analysis, soil organisation in the landscape and soil conservation</i> - Gilles COLINET, JeanThomas CORNELIS, Aurore DEGRÉ - [6h FT]	Q2	33	33	[+]	6
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#### STE1.52 Theory of structural calculations

GERE0021-1	<i>Theory of structural calculations</i> - Pierre LATTEUR - Suppl : Vincent DENOËL, Laurent DUCHENE, JeanMarc FRANSSSEN	Q2	36	36	-	6
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### Optional courses

Choose one module from :

#### STE1.53 Fluid mechanics applied to rural development

	<u>Requisite</u> ""					
HYDR0014-1	<i>Evaluation of cultures water needs</i> - Sarah GARRÉ	Q2	12	12	-	2
HYDR0004-1	<i>Irrigation</i> - Sarah GARRÉ	Q2	24	-	-	2

#### STE1.54 Automation

GERE0024-1	<i>Mitigation technology of environmental impacts of agricultural practices</i> - MarieFrance DESTAIN, Frédéric LEBEAU	Q2	12	12	-	2
GERE0007-3	<i>Digital electronics</i> - Bernard HEINESCH	Q2	16	8	-	2
All year round						
Period 6						

**Compulsory course**

**STE1.61 English**

LANG2956-1	<i>Practice of specialized English for Environmental Sciences and Technology: part 1</i> - Gilles COLINET, Aurore DEGRÉ, Sophie DEPOTERRE, Philippe LEJEUNE, Estelle MAYARD, Benoît MERCATORIS - [48h AUTR]	TA	-	-	[+]	4
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**Second Year**

First semester

**Compulsory courses (period 1 and 2)**

**STE2.10 English**

LANG2957-1	<i>Practice of specialized English for Environmental Sciences and Technology: part 2</i> - Gilles COLINET, Sophie DEPOTERRE, Philippe LEJEUNE, Estelle MAYARD - [24h AUTR]	Q1	-	12	[+]	3
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**Optional courses**

*Choose one option from the following :*

**"Environmental sciences and technologies" courses programme**

**Period 1**

**STE2.11 Soil and project management**

GEOP0006-3	<i>Soil quality evaluation and management</i> - Gilles COLINET - [6h FT]	Q1	18	12	[+]	2
GEST3020-1	<i>Conceiving and economic assessment of project : food crop and agroforestry</i> - Baudouin MICHEL - [12h SEM]	Q1	12	-	[+]	2

**STE2.12 Environmental techniques**

CHIM9248-1	<i>Basic principles of wastewater treatments</i> - Frank DELVIGNE	Q1	24	-	-	2
ENVT0036-1	<i>Sanitation and soil improvement</i> - Gilles COLINET - [12h AUTR]	Q1	6	-	[+]	2
HYDR0009-2	<i>Hydraulic engineering and environmental aspects</i> - Aurore DEGRÉ - [3h AUTR]	Q1	15	6	[+]	2

**Period 2**

**STE2.21 Geomatics applied to the environmental management**

ENVT0045-1	<i>Geomatics and applied remote sensing</i> - Philippe LEJEUNE	Q1	28	44	-	5
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**Choose one module from :**

**STE2.22 Machines 2/2**

Prerequisite

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Prerequisite "STE1.23 Machines and constructions 1/2"

GERE0018-1	<i>Building physics and special techniques (2nd part)</i> - Frédéric LEBEAU - [6h AUTR]	Q1	6	12	[+]	2
GERE0007-2	<i>Digital electronics, 2e partie</i> - Bernard HEINESCH	Q1	6	18	-	2
GERE0012-2	<i>Automatics and robotics in agriculture</i> - MarieFrance DESTAIN	Q1	12	12	-	2

**STE2.23 Environmental management**

ECON2248-1	<i>Environmental economy</i> - Kevin MARÉCHAL	Q1	24	-	-	2
ENVT2052-1	<i>Environmental impact : concepts and methodology</i> - Catherine DUBOIS - [6h SEM]	Q1	18	-	[+]	2
GEOL0009-1	<i>Space analysis and soil mapping</i> - Gilles COLINET - [6h AUTR]	Q1	6	6	[+]	2

**Choose one module from :**

**STE2.24 Plants-Ecosystem-Climate (PEC) relations**

GBLX0156-1	<i>Theoretical aspects of PEC relationships</i> - Marc AUBINET	Q1	12	12	-	2
GBLX0157-1	<i>Experimental aspects of PEC relationships</i> - Bernard HEINESCH	Q1	12	12	-	2
GBLX0158-1	<i>Impact of disruptions on PEC exchanges</i> - Christine MOUREAUX		12	12	-	2

**STE2.25 Environmental technology**

ENVT0037-1	<i>Machines and environment</i> - MarieFrance DESTAIN - [3h AUTR]	Q1	9	12	[+]	2
ENVT2053-1	<i>Physical aspects of waste management</i> - Luc MINNE - [3h FT]	Q1	21	-	[+]	2
ENVT2054-1	<i>Renewable energies</i> - Yves SCHENKEL - [4h FT]		20	-	[+]	2

**HEC-ULg programme**

GEST3001-1	<i>People management and organisation</i> - Jocelyne ROBERT	Q1	24	24	-	4
GEST3002-1	<i>Human Resources</i> - Jocelyne ROBERT	Q1	24	-	-	2
GEST3003-1	<i>Competitive strategy in the marketplace</i> (english language) - Michael GHILISSEN	Q1	16	16	-	3
GEST3004-1	<i>Marketing (operations and management)</i> (english language) - Michael GHILISSEN	Q1	16	16	-	3
GEST3005-2	<i>Accountancy and Finance</i> - Jacques BERWART		24	24	-	4
GEST3006-1	<i>Operations and supply chain management I</i> (english language) - Yasemin ARDA	Q1	16	16	-	3
GSTG3001-1	<i>Business plan</i> - COLLÉGIALITÉ		-	30	-	4
GSTG3002-1	<i>Functional analysis of a company</i> - COLLÉGIALITÉ - [30h Internship]		-	-	[+]	4

Choose one of the following courses :

GEST3010-1	<i>Operations and supply chain management II</i> - Sabine LIMBOURG	Q1	16	16	-	3
GEST3011-2	<i>ICT for Business</i> - Alain DUBOIS	Q1	16	16	-	3
GEST3012-1	<i>Financial and actuarial modelling</i> - Louis ESCH	Q1	16	16	-	3
GEST3045-1	<i>Project management</i> (english language) - Etienne DALOZE		30	-	-	5

Second semester

**Compulsory courses**

**Period 3**

**STE2.31 Dissertation**

RTFE2004-1	<i>Final thesis</i> - N...		-	-	-	27
MANA0005-1	<i>Portfolio (MA2)</i> - Philippe LEPOIVRE	TA	-	-	-	2
LANG2958-1	<i>English language : final thesis</i> - Sophie DEPOTERRE, Estelle MAYARD - [12h AUTR]	Q2	-	-	[+]	1