

# Study programmes 2021-2022

## Gembloux Agro-Bio Tech

### Master in smart rurality (120 ECTS)

#### Cycle view of the study programme

	Bl	Or	Th	Pr	Au	Cr
<b>Compulsory courses (B1 : 30Cr, B2 : 30Cr)</b>						
HULG9345-1	Introduction to rurality - Serge SCHMITZ - [45h Ex.]	B1	Q1	30	-	[+] 6
HULG9344-1	Science, ethics and development - [7,5h Ex.]	B1	Q1	22,5	-	[+] 3
HULG9346-1	Global change and the Anthropocene - [20h Ex.]	B1	Q1	15	-	[+] 3
HULG9347-1	Socio-ecological systems and theory of complexity - [20h Ex.]	B1	Q1	15	-	[+] 3
HULG9348-1	Introduction to the theory and management of socio-ecological transitions - Nicolas DENDONCKER, Pierre M. STASSART - [23h Ex.]	B1	Q1	20	-	[+] 3
[...] Choose one intership amongst :						
Management of natural environments and landscape						
HULG9359-1	Placement	B1		-	-	- 12
Elements of bioengineering and geography						
HULG9507-1	Internship	B1		-	-	- 12
HULG9373-1	Rural development project (group project)	B2		-	-	- 10
HULG9374-1	Final thesis	B2		-	-	- 20
<b>Optional courses (B1 : 30Cr, B2 : 30Cr)</b>						

Students choose 12 credits from among the proposed LU, depending on their undergraduate degree: (B1 : 12Cr)

HULG9349-1	Ethics	B1	Q1	15	-	-	2
HULG9350-1	Environmental and sustainable development law	B1	Q1	30	-	-	3
HULG9351-1	Introduction to geographic information systems - [20h Ex.]	B1	Q1	15	-	[+]	4
HULG9352-1	Economic geography (part)	B1	Q1	30	-	-	3
HULG9353-1	Population and environment in countries in the South	B1	Q1	30	-	-	3
HULG9354-1	Geographical analysis of rural and urban spaces	B1	Q1	30	-	-	4
ECON2248-1	Environmental economy - Kevin MARÉCHAL	B1	Q1	18	-	-	2
BIOD0001-3	Biodiversity management - Arnaud MONTY - [6h SEM]	B1	Q1	18	-	[+]	2
ENVT2049-2	Introduction to environmental assessment - Angélique LÉONARD - [9h AUTR]	B1	Q1	9	-	[+]	2
ENVT3050-1	Quantification of ecosystem services - Marc DUFRÈNE - [6h AUTR]	B1	Q1	9	5	[+]	2
HULG9355-1	Introduction to forest sciences - [15h Ex.]	B1	Q2	22,5	-	[+]	3
HULG9356-1	Introduction to systems analysis - [20h Ex.]	B1	Q1	10	-	[+]	3
HULG9506-1	Soil science and integrated excursions - part B - [30h Ex.]	B1		22,5	-	[+]	3
HULG9358-1	Introduction to biosphere engineering	B1	Q2	60	-	-	5

Choose courses for a total of 18 credits, in one of the two themes offered: (B1 : 18Cr)

#### Management of natural environments and landscape

ECON2248-1	Environmental economy - Kevin MARÉCHAL	B1	Q1	18	-	-	2
AGRO0001-1	Foundation of agriculture - Benjamin DUMONT , Barbara HAUREZ - [4h FT]	B1	Q2	20	-	[+]	2
PAYS0006-2	Landscape ecology concepts - Jan BOGAERT	B1	Q2	12	12	-	2
ENVT3061-2	Agrobiodiversity, ecosystemic and landscape services	B1	Q2				3
	- Introduction - Marc DUFRÈNE, Kevin MARÉCHAL - [8h AUTR]			16	-	[+]	
	- In-depth study - Marc DUFRÈNE, Kevin MARÉCHAL			12	-	-	
SOCI2234-1	Construction of public policies - Laurence LAMBERT	B1	Q2	18	-	-	2

ECON2247-1	<i>Agricultural policy</i> - Philippe BURNY - [4h SEM]	B1	Q2	9	5	[+]	2
DROI0967-1	<i>Rural law</i> - Gaëtan GOISSE	B1	Q2	18	-	-	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]	B1	Q2	23	23	[+]	6

#### Elements of bioengineering and geography

HULG9360-1	<i>Decision tools and farm management</i> (english language) - [7,5h Ex.]	B1	Q2	45	-	[+]	5
HULG9361-1	<i>Forest ecology and phytosociology</i> - [22,5h Ex.]	B1	Q2	37,5	-	[+]	5
HULG9362-1	<i>Forestry field trip</i>	B1	Q2	30	-	-	2
HULG9363-1	<i>Grasslands and rangelands</i> - [15h Ex.]	B1	Q2	22,5	-	[+]	3
HULG9364-1	<i>Rural and health geography</i> - [25h Ex.]	B1	Q2	25	-	[+]	4
HULG9365-1	<i>Land I in geography</i> - [30h Ex.]	B1	Q2	60	-	[+]	4
HULG9366-1	<i>Land II in geography</i> - [30h Ex.]	B1	Q2	60	-	[+]	4

#### Choose one focus from the following : (B2 : 30Cr)

##### Professional focus in environmental mediation and transition (B2 : 30Cr)

ENVT3026-1	<i>Social study of science and technology</i> - François MELARD - [24h SEM]	B2	Q1	12	-	[+]	4
ENVT3127-1	<i>Biodiversity and societies</i> - Dorothée DENAYER - [12h Cl. inv., 12h Mon. WS]	B2	Q1	24	-	[+]	4
ENVT3028-1	<i>Civic participation</i> - Dorothée DENAYER, Pierre M. STASSART	B2	Q1	36	-	-	4
ENVT3029-1	<i>Public policy and action</i> - Sébastien BRUNET, Patrick STEYAERT	B2	Q1	24	-	-	4
ENVT0040-2	<i>Transitions theory and management ecological transitions</i> - N..., Pierre M. STASSART - [15h SEM]	B2	Q1	30	30	[+]	4
ENVT3030-1	<i>Qualitative investigation techniques</i> - Nathalie SEMAL - [30h SEM]	B2	Q1	12	-	[+]	4
ENVT0021-2	<i>Field training : case studies</i> - Dorothée DENAYER, Pierre M. STASSART - [12h SEM, 48h FW]	B2	Q2	9	-	[+]	6

##### Professional focus in geographical Issues and methods (B2 : 30Cr)

HULG9367-1	<i>Globalisation, development and environment</i> - [30h Ex.]	B2	Q1	30	-	[+]	5
HULG9368-1	<i>Geopolitics of natural resources</i>	B2		30	-	-	5
HULG9369-1	<i>Fundamentals of geographic and environmental modelling</i> (english language) - [30h Ex.]	B2	Q2	30	-	[+]	5
HULG9370-1	<i>Field measurements in geography</i> - [30h Ex.]	B2	Q2	30	-	[+]	5
HULG9371-1	<i>Advanced geo-processing</i> (english language) - [30h Ex.]	B2	Q2	30	-	[+]	5
HULG9372-1	<i>Advanced spatial statistics</i> - [30h Ex.]	B2	Q1	30	-	[+]	5

##### Professional focus in territorial diagnosis and forecasting (B2 : 30Cr)

GEOG2024-1	<i>Territorial diagnosis workshops and qualitative methods</i> - Part 1 - Serge SCHMITZ - Part 2 - Serge SCHMITZ - [6d FW]	B2	TA	15	25	-	5
				5	20	[+]	
SPOL2319-1	<i>Methods of futurology and strategic analysis</i> - Sébastien BRUNET	B2	Q1	30	-	-	5
GEOG2028-1	<i>Introduction to spatial planning</i> - JeanMarie HALLEUX - [1d FW]	B2	Q1	15	15	[+]	3
GEOG2035-1	<i>Tourism development Strategy</i> - Serge SCHMITZ - [2d FW]	B2	Q1	15	10	[+]	4
GEOG0650-2	<i>Impact studies</i> - Guénaël DEVILLET	B2	Q2	10	20	-	4

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GEOG2047-2	<i>Territory project 2</i> - <i>Ateliers de prospective</i> - [6d FW] - <i>Séminaire de développement territorial - Chaire Sporck</i>	B2	TA						<b>9</b>
				15	50	[+]			
				15	-	-			
<b>Professional focus in information management and analysis (B2 : 30Cr)</b>									
HULG9375-1	<i>Process-based modelling in bioscience engineering</i> (english language) - [15h Ex.]	B2	Q1	30	-	[+]			<b>5</b>
HULG9376-1	<i>Integrated project in information management</i> (english language) - [20h Ex.]	B2	Q1	50	-	[+]			<b>7</b>
HULG9377-1	<i>Elements of Agroecology</i> (english language)	B2	Q1	30	-	-			<b>3</b>
HULG9378-1	<i>Statistical analysis of spatial and temporal data</i> - [15h Ex.]	B2	Q2	22,5	-	[+]			<b>3</b>
HULG9379-1	<i>Environmental diagnosis and indicators</i>	B2	Q2	22,5	-	-			<b>3</b>
HULG9380-1	<i>Spatial modelling of territorial dynamics</i> - [15h Ex.]	B2	Q2	15	-	[+]			<b>3</b>
HULG9381-1	<i>Advanced study in information management</i>	B2	Q2	30	-	-			<b>3</b>
HULG9382-1	<i>Sociology of actors and rural territories</i>	B2		30	-	-			<b>3</b>
<b>Professional focus in new forms of agriculture and short supply chains (B2 : 30Cr)</b>									
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	B2	Q2						<b>6</b>
				13	13	-			
				12	-	[+]			
				9	-	-			
PAYS0014-1	<i>Ecological engineering</i> - Marc DUFRÈNE, Grégory MAHY - Suppl : Julien PIQUERAY - [23h FT]	B2	Q1	19	15	[+]			<b>6</b>
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]	B2	Q1						<b>3</b>
				8	-	[+]			
				-	-	[+]			
PAYS0017-1	<i>Plants and towns</i> - <i>Biodiversity and towns</i> - Grégory MAHY - Suppl : Fanny BOERAEVE, Sylvain BOISSON - [11h Proj.] - <i>Biodiversity and towns: advanced</i> - Grégory MAHY - Suppl : Fanny BOERAEVE, Sylvain BOISSON	B2	Q1						<b>3</b>
				16	-	[+]			
				8	-	-			
ENVT2052-1	<i>Environmental impact : concepts and methodology</i> - Marc DUFRÈNE - [12h AUTR]	B2	Q1	24	-	[+]			<b>3</b>
ECON2251-4	<i>Economy of food and agro-industrial sectors</i> - <i>Introduction</i> - Philippe LEBAILLY - <i>Advanced</i>	B2	Q1						<b>9</b>
				18	-	-			
				63	-	-			