

Block view of the study programme

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Block 1

Compulsory courses

Module 1: Introduction and basic concepts

Opening seminars of the water-energy-food Nexus ; Charles BIELDERS, Gilles COLINET, Bernard TYCHON

HULG0559-1	<i>Challenges of sustainable development, transition and development of the EEA Nexus dimension</i>	Q1				4
	- <i>Challenges of sustainable development and transition</i> -		22,5	-	-	
	Valentin COUVREUR, Nathalie DELZENNE, Valérie SWAEN					
	- <i>Development of the EEA Nexus dimension</i> - Charles BIELDERS, Gilles COLINET, Bernard TYCHON		6	3	-	

Module 2: The 3 components of the NEXUS EEA

Water security component

ENVT3040-2	<i>Integrated and participative management of water resources</i> - Johan DEROUANE, Joost WELLENS	Q1	24	16	-	4
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Energy security component

ENVT0892-1	<i>Integrated energy management, particularly in the construction industry</i> - Philippe ANDRE, Maxime HABRAN, N...	Q1	28	12	-	4
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Food security component

ENVT0073-1	<i>Agricultural production systems and food security</i> - Antoine DENIS, Pierre OZER, Bernard TYCHON	Q1	20	20	-	4
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Module 3: Interconnections of the 3 components of the EEA Nexus and case studies

ENVT0074-1	<i>Nexus Water-Energy-Food seminars: case studies of interconnections</i> - Charles BIELDERS, Gilles COLINET, Antoine DENIS, Bernard TYCHON - [38h SEM, 10h Vis.]	TA	-	-	[+]	4
HULG0560-1	<i>Natural resources: appropriation and resistance</i> - An ANSOMS	Q2	30	-	-	3
HULG0561-1	<i>Water-Food Nexus: modelling and analysis tools</i> - Mathieu JAVAUX, Marnik VANCLOOSTER - Suppl : Alice ALONSO	Q2	22,5	22,5	-	4

Module 4: Technical tools

ENVT2027-4	<i>Application of teledetection and geographical information systems for environmental management</i> - Antoine DENIS, Bernard TYCHON	Q1	12	24	-	3
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Module 5: Personal work in the form of an internship

STFE0035-1	<i>Personal work in the form of an internship</i> - COLLÉGIALITÉ, Moussa EL JARROUDI - [1,5mois Internship]	Q2	-	-	[+]	15
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Optional courses

Note: for an annual programme of more than 60 credits, contact the Beadle's office

Module 2: The 3 components of the NEXUS EEA

[...] In agreement with the Jury, choose courses for a total of 7 to 8 credits, including a maximum of 1 course among the courses ENVT3035-2 and ENVT0068-2

Water security component

HULG0562-1	<i>Irrigation and drainage</i> - Mathieu JAVAUX	Q2	22,5	22,5	-	4
ENVT3035-2	<i>Wastewater treatment, production of drinking water and recovery of wastewater for irrigation</i> - Hugues JUPSIN - [10h FT]	Q1	24	6	[+]	4

Energy security component

ENVT0905-1	<i>Energy communities</i> - Philippe ANDRE, Damien ERNST	Q1	20	20	-	4
ENVT0068-2	<i>Exploitation of renewable energy</i> - Philippe ANDRE, Vincent HANUS, N..., N... - [0,5d FT]	Q1	37	3	[+]	4

Food security component

HULG0487-1	<i>Soil management and development in warm region</i> - Charles BIELDERS, N...	Q2	22	8	-	3
GEST3019-2	<i>Food policies and strategies</i> (english language) - N... - Suppl : Arno FAIVRE - [3h FT]	Q1	9	15	[+]	3

Module 3: Interconnections of the 3 components of the EEA Nexus and case studies

[...] In agreement with the Jury, choose courses for a total of 5 to 6 credits from:

GEOG0073-1	<i>Town and country planning, food and energy security</i> - Serge SCHMITZ	Q2	24	-	-	3
HULG0490-1	<i>Evaluation of the environmental impact: diagnosis and indicators</i> - Charles BIELDERS, Pierre DEFOURNY	Q2	22,5	-	-	3
ENVT0075-1	<i>Waste: water, energy and food resources</i> - N... - [3h Vis.]	Q2	21	-	[+]	3
ECON0945-1	<i>Economy, energy and environment</i> - Axel GAUTIER, Jérôme SCHOENMAECKERS	Q1	16	-	-	2

Module 4: Technical tools

Choose, in accordance with the Jury, 1 course among :

HULG0563-1	<i>Evaluation of the environmental impact: project and introduction to managing databases, part F: Managing databases</i> - Antoine DENIS, Guillaume LOBET	Q2	12	12	-	2
ENVT0736-6	<i>Development projects management and communication, Théorie et travaux pratiques</i> - Cécile CAVALADE, Bakary DJABY, Bernard TYCHON	Q1	12	12	-	2
GEST7085-1	<i>Leadership best practices</i> (english language) - Michael GHILISSEN	Q2	-	16	-	2