

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> - Philippe BARET, Nathalie DELZENNE, Valérie SWAEN		22,5	-	-				
	- <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> - Joost WELLENS	Q1	32	16	-				4
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Energy security component

ENVT0892-1	<i>Integrated energy management, particularly in the construction industry</i> - Philippe ANDRE - Suppl : Maxime HABRAN	Q1	32	16	-				4
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Food security component

ENVT0073-1	<i>Agricultural production systems and food security</i> - 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, Bernard TYCHON - [38h SEM, 10h Vis.]	TA	-	-		[+]			4
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HULG0560-1	<i>Natural resources and resistances</i> - An ANSOMS	Q2	30	-	-				3
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HULG0561-1	<i>Water-Food Nexus: modelling and analysis tools</i> - Mathieu JAVAUX, François JONARD, Marnik VANCLOOSTER	Q2	22,5	22,5	-				4
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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 - [1,5mois Internship]	Q2	-	-		[+]			15
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Optional courses

Module 2: The 3 components of the NEXUS EEA

Choose courses, with the approval of the Jury, totalling 8 credits among :

Water security component

HULG0562-1	<i>Irrigation and drainage</i> - Sarah GARRÉ, Mathieu JAVAUX, Joost WELLENS	Q2	22,5	22,5	-				4
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ENVT3035-2	<i>Wastewater treatment, production of drinking water and recovery of wastewater for irrigation</i> - Hugues JUPSIN - [6h FT]	Q1	24	12		[+]			4
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Energy security component

ELEC0080-1	<i>Energy networks</i> - <i>Part 1: Electrical energy systems</i> - Damien ERNST	Q1							4
			24	12	-				

	- Part 2: Heat networks - Pierre DEWALLEF - [1d FW]		6	6	[+]	
ENVT0068-2	Exploitation of renewable energy - Philippe ANDRE, Vincent HANUS - Suppl : Manfred GREGER	Q1	32	16	-	4

Food security component

HULG0487-1	Soil management and development in warm region - Charles BIELDERS, Bruno DELVAUX	Q2	22	8	-	3
GEST3019-2	Food Policy and Strategy - Hossein AZADI, Philippe LEBAILLY - [3h FT]	Q1	9	15	[+]	3

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

With the agreement of the Jury, choose 2 courses for a total of 5 credits from:

GEOG0073-1	Town and country planning, food and energy security - Serge SCHMITZ	Q2	24	-	-	3
HULG0490-1	Evaluation of the environmental impact: diagnosis and indicators - Charles BIELDERS, Pierre DEFOURNY	Q2	22,5	-	-	3
ENVT0075-1	Waste: water, energy and food resources - Luc MINNE - [3h Vis.]	Q2	21	-	[+]	3
ECON0945-1	Economy, energy and environment - Nadia DE ZOTTI, HenryJean GATHON, Axel GAUTIER, Bernard JURION	Q1	24	5	-	2

Module 4: Technical tools

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

HULG0563-1	Evaluation of the environmental impact: project and introduction to managing databases, part F: Managing databases - Guillaume LOBET	Q2	12	12	-	2
ENVT0736-4	Development projects management and communication, Part 1: Development projects management - Bernard TYCHON - Suppl : Bakary DJABY	Q1	12	12	-	2
GEST7085-1	Leadership best practices (english language) - Michael GHILISSEN	Q2	-	16	-	2