

Cycle view of the study programme

B1 Or Th Pr Au Cr

Compulsory courses (B1 : 45Cr)

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>	B1	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	B1	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	B1	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	B1	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.]	B1	TA	-	-		[+]		4
HULG0560-1	<i>Natural resources and resistances</i> - An ANSOMS	B1	Q2	30	-	-			3
HULG0561-1	<i>Water-Food Nexus: modelling and analysis tools</i> - Mathieu JAVAUX, François JONARD, Marnik VANCLOOSTER	B1	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	B1	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]	B1	Q2	-	-		[+]		15
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Optional courses (B1 : 15Cr)

Module 2: The 3 components of the NEXUS EEA

Choose courses, with the approval of the Jury, totalling 8 credits among : (B1 : 8Cr)

Water security component

HULG0562-1	<i>Irrigation and drainage</i> - Sarah GARRÉ, Mathieu JAVAUX, Joost WELLENS	B1	Q2	22,5	22,5	-			4
ENVT3035-2	<i>Wastewater treatment, production of drinking water and recovery of wastewater for irrigation</i> - Hugues JUPSIN - [6h FT]	B1	Q1	24	12		[+]		4

Energy security component

ELEC0080-1	<i>Energy networks</i> - Part 1: <i>Electrical energy systems</i> - Damien ERNST	B1	Q1	24	12	-			4
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	- Part 2: Heat networks - Pierre DEWALLEF - [1d FW]			6	6	[+]		
ENVT0068-2	<i>Exploitation of renewable energy</i> - Philippe ANDRE, Vincent HANUS - Suppl : Manfred GREGER	B1	Q1	32	16	-		4

Food security component

HULG0487-1	<i>Soil management and development in warm region</i> - Charles BIELDERS, Bruno DELVAUX	B1	Q2	22	8	-		3
GEST3019-2	<i>Food Policy and Strategy</i> - Hossein AZADI, Philippe LEBAILLY - [3h FT]	B1	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: (B1 : 5Cr)

GEOG0073-1	<i>Town and country planning, food and energy security</i> - Serge SCHMITZ	B1	Q2	24	-	-		3
HULG0490-1	<i>Evaluation of the environmental impact: diagnosis and indicators</i> - Charles BIELDERS, Pierre DEFOURNY	B1	Q2	22,5	-	-		3
ENVT0075-1	<i>Waste: water, energy and food resources</i> - Luc MINNE - [3h Vis.]	B1	Q2	21	-	[+]		3
ECON0945-1	<i>Economy, energy and environment</i> - Nadia DE ZOTTI, HenryJean GATHON, Axel GAUTIER, Bernard JURION	B1	Q1	24	5	-		2

Module 4: Technical tools

With the agreement of the Jury, choose 1 course from: (B1 : 2Cr)

HULG0563-1	<i>Evaluation of the environmental impact: project and introduction to managing databases, part F: Managing databases</i> - Guillaume LOBET	B1	Q2	12	12	-		2
ENVT0736-4	<i>Development projects management and communication, Part 1: Development projects management</i> - Bernard TYCHON - Suppl : Bakary DJABY	B1	Q1	12	12	-		2
GEST7085-1	<i>Leadership best practices</i> (english language) - Michael GHILISSEN	B1	Q2	-	16	-		2