

#### 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> - Valentin COUVREUR, 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> - 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, 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
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HULG0560-1	<i>Natural resources: appropriation and resistance</i> - An ANSOMS	Q2	30	-	-				3
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HULG0561-1	<i>Water-Food Nexus: modelling and analysis tools</i> - Mathieu JAVAUX, Marnik VANCLOOSTER - Suppl : Alice ALONSO	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

Remarque - Pour un PAE de plus de 60 crédits, contacter l'Apparitorat

##### Module 2: The 3 components of the NEXUS EEA

[...] En accord avec le Jury, choisir des cours pour un total de 7 à 8 crédits, dont maximum 1 cours parmi les cours  
ENVT3035-2 et ENVT0068-2

##### Water security component

HULG0562-1	<i>Irrigation and drainage</i> - 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 - [10h FT]	Q1	24	6		[+]			4
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##### Energy security component

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

#### Food security component

HULG0487-1	<i>Soil management and development in warm region</i> - Charles BIELDERS, Bruno DELVAUX	Q2	22	8	-	<b>3</b>
GEST3019-2	<i>Food policies and strategies</i> (english language) - Hossein AZADI - [3h FT]	Q1	9	15	[+]	<b>3</b>

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

[...] En accord avec le Jury, choisir des cours pour un total de 5 à 6 crédits parmi :

GEOG0073-1	<i>Town and country planning, food and energy security</i> - Serge SCHMITZ	Q2	24	-	-	<b>3</b>
HULG0490-1	<i>Evaluation of the environmental impact: diagnosis and indicators</i> - Charles BIELDERS, Pierre DEFOURNY	Q2	22,5	-	-	<b>3</b>
ENVT0075-1	<i>Waste: water, energy and food resources</i> - Luc MINNE - [3h Vis.]	Q2	21	-	[+]	<b>3</b>
ECON0945-1	<i>Economy, energy and environment</i> - Nadia DE ZOTTI, HenryJean GATHON, Axel GAUTIER	Q1	20	-	-	<b>2</b>

#### 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	-	<b>2</b>
ENVT0736-4	<i>Development projects management and communication, Part 1: Development projects management</i> - N..., Bernard TYCHON	Q1	12	12	-	<b>2</b>
GEST7085-1	<i>Leadership best practices</i> (english language) - Michael GHILISSEN	Q2	-	16	-	<b>2</b>