

#### 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	32	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	Q1	32	16	-				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	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

In agreement with the Jury, choose courses for a total of 8 credits, including a maximum of 1 course among the 3 courses ENVT3035-2, ENVT0068-2, GEST3019-2 (Note: for an annual programme of more than 60 credits, contact the Beadle's office):

##### Water security component

HULG0562-1	<i>Irrigation and drainage</i> - Mathieu JAVAUX	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> - Part 1: <i>Electrical energy systems</i> - Damien ERNST - Part 2: <i>Heat networks</i> - Pierre DEWALLEF - [1d FW]	Q1	24	12	-	4
			6	6	[+]	

ENVT0068-2	<i>Exploitation of renewable energy</i> - Philippe ANDRE, Manfred GREGER, Vincent HANUS	Q1	32	16	-	4
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#### Food security component

HULG0487-1	<i>Soil management and development in warm region</i> - Charles BIELDERS, Bruno DELVAUX	Q2	22	8	-	3
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GEST3019-2	<i>Food policies and strategies</i> (english language) - Hossein AZADI - [3h FT]	Q1	9	15	[+]	3
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#### 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 credits from: (Note: for an annual programme of more than 60 credits, contact the Beadle's office):

GEOG0073-1	<i>Town and country planning, food and energy security</i> - Serge SCHMITZ	Q2	24	-	-	3
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HULG0490-1	<i>Evaluation of the environmental impact: diagnosis and indicators</i> - Charles BIELDERS, Pierre DEFOURNY	Q2	22,5	-	-	3
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ENVT0075-1	<i>Waste: water, energy and food resources</i> - Luc MINNE - [3h Vis.]	Q2	21	-	[+]	3
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ECON0945-1	<i>Economy, energy and environment</i> - Nadia DE ZOTTI, HenryJean GATHON, Axel GAUTIER	Q1	24	5	-	2
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#### 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> - Guillaume LOBET	Q2	12	12	-	2
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ENVT0736-4	<i>Development projects management and communication, Part 1: Development projects management</i> - N..., Bernard TYCHON	Q1	12	12	-	2
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GEST7085-1	<i>Leadership best practices</i> (english language) - Michael GHILISSEN	Q2	-	16	-	2
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