

## 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> <i>- Challenges of sustainable development and transition -</i> <i>Valentin COUVREUR, Nathalie DELZENNE, Valérie SWAEN</i> <i>- Development of the EEA Nexus dimension - Charles BIELDERS,</i> <i>Gilles COLINET, Bernard TYCHON</i>	Q1	4
		22,5	-
		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> <i>Johan DEROUANE, Joost WELLENS</i>	Q1	24	16	-	4
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###### Energy security component

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

ENVT0073-1	<i>Agricultural production systems and food security -</i> <i>Antoine DENIS, Pierre OZER, Bernard TYCHON</i>	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> <i>Charles BIELDERS, Gilles COLINET, Antoine DENIS, Bernard TYCHON - [38h SEM, 10h Vis.]</i>	TA	-	-	[+]	4
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HULG0560-1	<i>Natural resources: appropriation and resistance -</i> <i>An ANSOMS</i>	Q2	30	-	-	3
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HULG0561-1	<i>Water-Food Nexus: modelling and analysis tools -</i> <i>Mathieu JAVAUX, Marnik VANCLOOSTER - Suppl : Alice ALONSO</i>	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> <i>Antoine DENIS, Bernard TYCHON</i>	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> <i>COLLÉGIALITÉ, Moussa EL JARROUDI - [1,5mois Internship]</i>	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> <i>Mathieu JAVAUX</i>	Q2	22,5	22,5	-	4
ENVT3035-2	<i>Wastewater treatment, production of drinking water and recovery of wastewater for irrigation -</i> <i>Hugues JUPSN - [10h FT]</i>	Q1	24	6	[+]	4

###### Energy security component

# Study programmes 2025-2026

## Faculty of Sciences

### Advanced Master in the Water-Energy-Food Nexus

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 SCHOENMAEKERS	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