Block view of the study programme

		Or	Th	Pr	Au	Cr

Block 1

Compulsory courses

Module 1: Introduction and basic concepts

Opening seminars of the water-energy-food Nexus ¿ Charles BIELDERS, Gilles COLINET, Bernard TYCHON

		Or	Th	Pr	Au	Cr
HULG0559-1	*Challenges of sustainable development, transition and development of the EEA Nexus dimension*	Q1				**4**
	- Challenges of sustainable development and transition - Philippe BARET, Nathalie DELZENNE, Valérie SWAEN		22,5	-	-	
	- Development of the EEA Nexus dimension - Charles BIELDERS, Gilles COLINET, Bernard TYCHON		6	3	-	

Module 2: The 3 components of the NEXUS EEA

Water security component

		Or	Th	Pr	Au	Cr
ENVT3040-2	*Integrated and participative management of water resources* - Johan DEROUANE, Joost WELLENS	Q1	32	16	-	**4**

Energy security component

		Or	Th	Pr	Au	Cr
ENVT0892-1	*Integrated energy management, particularly in the construction industry* - Philippe ANDRE, Maxime HABRAN	Q1	32	16	-	**4**

Food security component

		Or	Th	Pr	Au	Cr
ENVT0073-1	*Agricultural production systems and food security* - Antoine DENIS, Pierre OZER, Bernard TYCHON	Q1	20	20	-	**4**

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

		Or	Th	Pr	Au	Cr
ENVT0074-1	*Nexus Water-Energy-Food seminars: case studies of interconnections* - Charles BIELDERS, Gilles COLINET, Antoine DENIS, Bernard TYCHON - [38h SEM, 10h Vis.]	TA	-	-	[+]	**4**
HULG0560-1	*Natural resources: appropriation and resistance* - An ANSOMS	Q2	30	-	-	**3**
HULG0561-1	*Water-Food Nexus: modelling and analysis tools* - Mathieu JAVAUX, Marnik VANCLOOSTER	Q2	22,5	22,5	-	**4**

Module 4: Technical tools

		Or	Th	Pr	Au	Cr
ENVT2027-4	*Application of teledetection and geographical information systems for environmental management* - Antoine DENIS, Bernard TYCHON	Q1	12	24	-	**3**

Module 5: Personal work in the form of an internship

		Or	Th	Pr	Au	Cr
STFE0035-1	*Personal work in the form of an internship* - COLLÉGIALITÉ - [1,5mois Internship]	Q2	-	-	[+]	**15**

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

		Or	Th	Pr	Au	Cr
HULG0562-1	*Irrigation and drainage* - Mathieu JAVAUX	Q2	22,5	22,5	-	**4**
ENVT3035-2	*Wastewater treatment, production of drinking water and recovery of wastewater for irrigation* - Hugues JUPSIN - [6h FT]	Q1	24	12	[+]	**4**

Energy security component

Code	Course	Q				Cr.
ELEC0080-1	*Energy networks*	Q1				**4**
	- *Part 1: Electrical energy systems* - Damien ERNST		24	12	-	
	- *Part 2: Heat networks* - Pierre DEWALLEF - [1d FW]		6	6	[+]	
ENVT0068-2	*Exploitation of renewable energy* - Philippe ANDRE, Manfred GREGER, Vincent HANUS	Q1	32	16	-	**4**

Food security component

Code	Course	Q				Cr.
HULG0487-1	*Soil management and development in warm region* - Charles BIELDERS, Bruno DELVAUX	Q2	22	8	-	**3**
GEST3019-2	*Food policies and strategies* (english language) - Hossein AZADI - [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 credits from: (Note: for an annual programme of more than 60 credits, contact the Beadle's office):

Code	Course	Q				Cr.
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	Q1	24	5	-	**2**

Module 4: Technical tools

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

Code	Course	Q				Cr.
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* - N..., Bernard TYCHON	Q1	12	12	-	**2**
GEST7085-1	*Leadership best practices* (english language) - Michael GHILISSEN	Q2	-	16	-	**2**